abcam

ab32034

Anti-p27 KIP 1 antibody [Y236]

Anti-p27 KIP 1 antibody [Y236] (ab32034) is a rabbit monoclonal antibody detecting p27 KIP 1 in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- KO validated for confirmed specificity
- Biophysical QC for unrivalled batch-batch consistency
- Over 200 publications
- Trusted since 2006

Recombinant | RabMAb | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	Y236
Purification technique	Affinity purification Protein A
Specificity	This antibody recognises p27(Kip1).
Dissociation constant	2.1 x 10^{-11} M
Concentration	0.566 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Rat
Dilution info	1/30
Notes	**For unpurified use at 1:50.**

Species	Human
Dilution info	1/30
Notes	**For unpurified use at 1:50.**

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Human
Dilution info	1/5000
Notes	**For unpurified use at 1:1000.**

Expected

Species	Rat, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Mouse

Dilution info	1/100 - 1/500
Notes	-

Species	Human
Dilution info	1/100 - 1/500
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/50
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/20 - 1/40.

Species	Human
Dilution info	1/50
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/20 - 1/40.

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/50
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

Target data

See full target information CDKN1B

Function	Important regulator of cell cycle progression. Inhibits the kinase activity of CDK2 bound to cyclin A, but has little inhibitory activity on CDK2 bound to SPDYA (PubMed:28666995). Involved in G1 arrest. Potent inhibitor of cyclin E- and cyclin A-CDK2 complexes. Forms a complex with cyclin type D-CDK4 complexes and is involved in the assembly, stability, and modulation of CCND1-CDK4 complex activation. Acts either as an inhibitor or an activator of cyclin type D-CDK4 complexes depending on its phosphorylation state and/or stoichometry.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-p27 KIP 1 antibody [Y236] (ab32034) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse, Rat samples.

What is the molecular weight of p27 KIP 1?
Anti-p27 KIP 1 [Y236] (ab32034) specifically detects a band for p27 KIP 1 (UniProt: P46527) at a molecular weight of 22kDa.

Trusted by the scientific community
Anti-p27 KIP 1 [Y236] (ab32034) was first used in a scientific publication in 2006 and has been cited over 200 times in peer-reviewed journals.

Reviewed by scientists
Anti-p27 KIP 1 [Y236] (ab32034) has over 15 independent reviews from customers.

Specificity confirmed
The specificity of Anti-p27 KIP 1 antibody [Y236] (ab32034) has been confirmed by Western blot testing in CDKN1B Knockout HAP1 cells.

Other related products
We have a range of other formats of antibody clone [Y236] also available for your convenience: ab32034, HRP - ab194235, Carrier free - ab206927, APC - ab310850, PE - ab310920

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The protein known as p27 KIP1 also referred to as p27 CDKN1B or KIP1 is a member of the kinase inhibitory protein family. It plays an important role in cell cycle regulation by inhibiting cyclin-dependent kinases (CDKs). p27 KIP1 weighs approximately 27 kDa and can be found in various tissues where it regulates cell proliferation. The protein functions as a suppressor by binding to cyclin-CDK complexes preventing the transition from G1 phase to S phase in the cell division cycle.
Biological function summary	The function of p27 KIP1 involves its role in controlling cell growth and division. It achieves this by becoming a part of larger protein complexes involving CDKs and cyclins. By directly interacting with these complexes p27 KIP1 modulates cell cycle progression therefore acting as a brake on cellular proliferation. The protein is important in maintaining proper cell cycle checkpoints and preventing uncontrolled cell growth which is essential for normal cellular functioning.
Pathways	The involvement of p27 KIP1 centers on cell cycle regulation and signaling pathways such as the PI3K/AKT pathway. Its interaction with CDKs and cyclins situates it within the core mechanisms that determine cell division timing. p27 KIP1 operates alongside other proteins like cyclin D and CDK4/6 fitting into the regulatory intricacies of these pathways. Proper functioning of these pathways ensures cellular homeostasis and prevents the development of oncogenic processes.
Associated diseases and disorders	Dysfunction of p27 KIP1 has links to cancer and neurodegenerative diseases. Low levels or mutations can lead to uncontrolled cell proliferation contributing to the development and progression of cancers such as breast cancer. p27 KIP1's role in neurodegenerative diseases involves its regulation of neuronal cell cycle re-entry with abnormalities potentially exacerbating conditions like Alzheimer's disease. In these contexts its interaction with proteins such as cyclin E and CDK2 becomes particularly relevant in understanding disease mechanisms.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

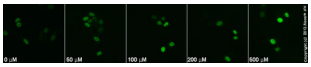
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

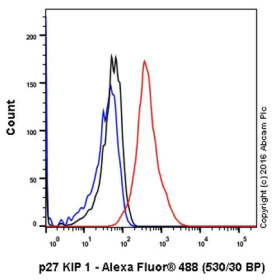
23 product images



Immunocytochemistry/ Immunofluorescence - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-p27 KIP 1 antibody

Unpurified ab32034 staining p27 KIP1 in MCF7 cells treated with NS 398 (ab120295), by ICC/IF. Increase in p27 KIP1 expression correlates with increased concentration of NS 398, as described in literature.
The cells were incubated at 37°C for 6h in media containing different concentrations of ab120295 (NS 398) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab32034 (1/100 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (ab96899) at 1/250 dilution was used as the secondary antibody.

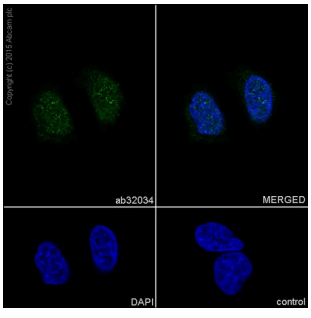


Flow Cytometry (Intracellular) - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Flow Cytometry (Intracellular) staining using rabbit Anti-p27 KIP 1 antibody

Unpurified ab32034 staining p27 KIP 1in the human cell line MCF-7 (human breast carcinoma) by intracellular flow cytometry. Cells were fixed with 4% paraformaldehyde, permeabilized with 90% methanol and the sample was incubated with the primary antibody at a dilution of 1/20. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody. Isoytype control: Rabbit monoclonal IgG (Black)

Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)

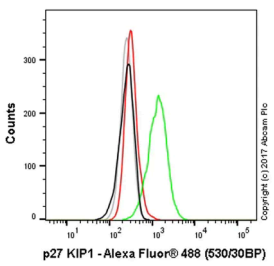


Immunocytochemistry/ Immunofluorescence - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-p27 KIP 1 antibody

Immunocytochemistry/Immunofluorescence analysis of HeLa (human cervix adenocarcinoma) cells labelling p27 KIP 1 (green) with purified ab32034 at 1/500. Cells were fixed with 4% Paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, Alexa Fluor® 488-

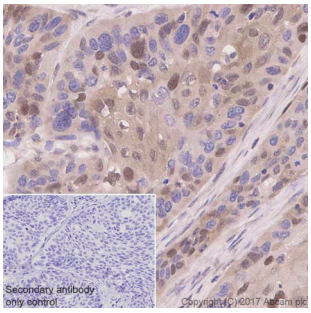
conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Nuclei were counterstained with DAPI (blue).
Secondary Only Control: PBS was used instead of the primary antibody as the negative control.



Flow Cytometry (Intracellular) - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Flow Cytometry (Intracellular) staining using rabbit Anti-p27 KIP 1 antibody

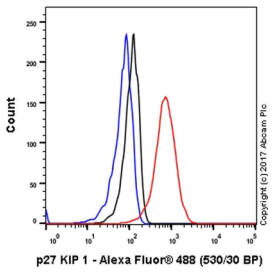
Overlay histogram showing HAP1 wildtype (green line) and HAP1-CDKN1B knockout cells (red line) stained with ab32034. The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab32034, 1µg/ml) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) presorbed (ab150081) at 1/2000 dilution for 30 min at 22°C. A rabbit IgG isotype control antibody (ab172730) was used at the same concentration and conditions as the primary antibody (HAP1 wildtype - black line, HAP1-CDKN1B knockout - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity). Acquisition of >5,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter. This antibody can also be used in HAP1 cells fixed with 4%PFA (10 min), permeabilized with 0.1% PBS-Triton X-100 for 15 min under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-p27 KIP 1 antibody

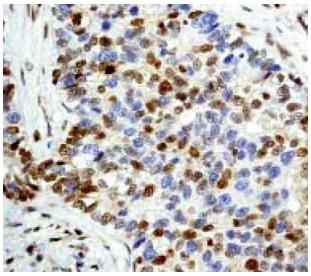
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human cervical carcinoma tissue sections labeling p27 KIP 1 with Purified ab32034 at 1:50 dilution (10.4 µg/ml). Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Flow Cytometry (Intracellular) - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Flow Cytometry (Intracellular) staining using rabbit Anti-p27 KIP 1 antibody

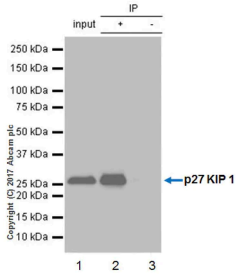
Intracellular Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling p27 KIP 1 with purified ab32034 at 1/50 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-p27 KIP 1 antibody

Immunohistochemical analysis of paraffin-embedded human breast carcinoma. Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0).



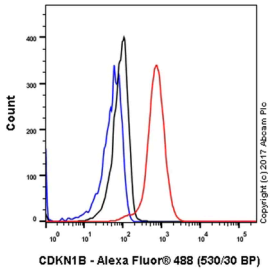
Immunoprecipitation - Anti-p27 KIP 1 antibody [Y236] (ab32034)

ab32034 (purified) at 1/20 dilution (2µg) immunoprecipitating p27 KIP 1 in MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate.

Lane 1 (input): MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate 10µg
Lane 2 (+): ab32034 & MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab32034 in MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1/1000 dilution.
Blocking and diluting buffer: 5% NFDM/TBST.
All lanes:
Immunoprecipitation - Anti-p27 KIP 1 antibody [Y236] (ab32034)

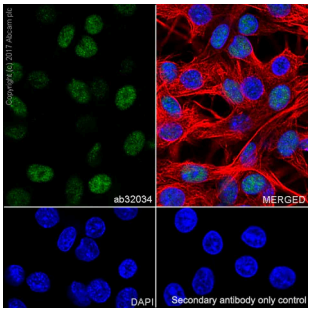
Predicted band size: 22 kDa



Flow Cytometry (Intracellular) - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Flow Cytometry (Intracellular) staining using rabbit Anti-p27 KIP 1 antibody

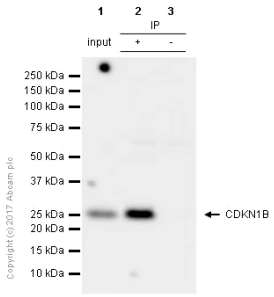
Flow cytometry analysis of NIH/3T3 (Mouse embryonic fibroblast) cells labelling p27 KIP 1 with ab32034 at 1/500 dilution (5.22 ©:g/ml) (Red). Cells were fixed with 4% paraformaldehyde . Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (ab172730) (Black). Unlabeled control - Unlabelled cells (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-p27 KIP 1 antibody

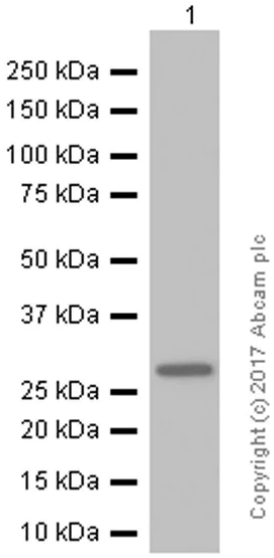
Immunocytochemistry/ Immunofluorescence analysis of RAW264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) treated with 100ng/ml LPS for 7 h and 1µg/ml BFA for the last 3h cells labeling p27 KIP 1 with purified ab32034 at 1/100 dilution (5.22 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 dilution (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunoprecipitation - Anti-p27 KIP 1 antibody [Y236] (ab32034)

ab32034 (purified) at 1/500 dilution (1.044 ©:g/ml) immunoprecipitating p27 KIP 1 in C6 whole cell lysate.
Lane 1 (input): C6(Rat glial tumor glial cell) whole cell lysate 10 ©:g
Lane 2 (+): ab32034 & C6 whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab32034 in C6 whole cell lysate
For western blotting, VeriBlot for IP secondary antibody (HRP) (ab131366) was used as the secondary antibody at 1/1000 dilution.
Blocking and diluting buffer: 5% NFDM /TBST .
All lanes:
Immunoprecipitation - Anti-p27 KIP 1 antibody [Y236] (ab32034)

Predicted band size: 22 kDa



Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034)

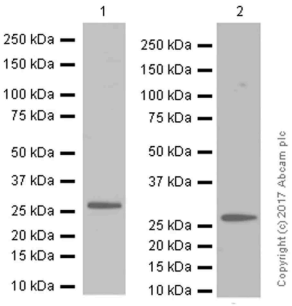
Blocking and diluting buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034) at 1/5000 dilution

All lanes:
HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates at 15 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 22 kDa



Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Western blot staining using rabbit Anti-p27 KIP 1 antibody

Blocking and diluting buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034) at 1/5000 dilution

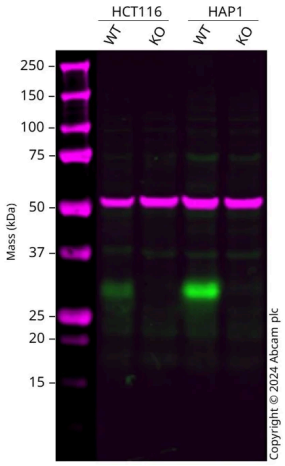
Lane 1:
MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates at 15 µg

Lane 2:
C6 (Rat glial tumor glial cell) whole cell lysates at 15 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 22 kDa



Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Western blot staining using rabbit Anti-p27 KIP 1 antibody

Western blot: Anti-CDKN1B antibody [Y236] (ab32034) staining at 1/5000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] (ab7291) loading control staining at 1/20000 dilution, shown in magenta. In Western blot, ab32034 was shown to bind specifically to CDKN1B. A band was observed at 30 kDa in wild-type HCT 116 cell lysates with no signal observed at this size in CDKN1B knockout cell line. To generate this image, wild-type and CDKN1B knockout HCT 116 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.
All lanes:
Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034) at 1/5000 dilution

Lane 1:
Wild-type HCT 116 cell lysate at 20 µg

Lane 2:
CDKN1B knockout HCT 116 cell lysate at 20 µg

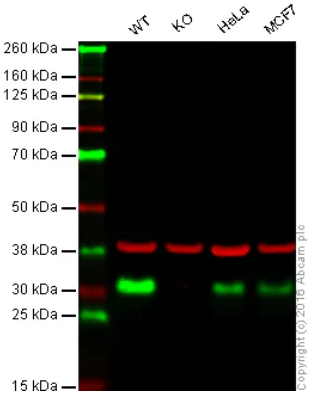
Lane 3:
Wild-type HAP1 cell lysate at 20 µg

Lane 4:
CDKN1B knockout HAP1 cell lysate at 20 µg

Secondary

All lanes:
Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution

Performed under reducing conditions.



Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034)

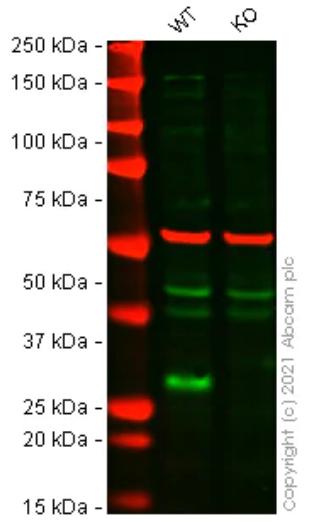
P27 KIP 1 Western blot staining using rabbit Anti-p27 KIP 1 antibody

Lane 1: Wild type HAP1 whole cell lysate (20 µg)
Lane 2: CDKN1B knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: MCF7 whole cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab32034 observed at 30 kDa. Red - loading control, ab8245, observed at 37 kDa.

Unpurified ab32034 was shown to specifically react with CDKN1B in wild-type HAP1 cells. No band was observed when CDKN1B knockout samples were used. Wild-type and CDKN1B knockout samples were subjected to SDS-PAGE. ab32034 and ab8245 (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/1000 and 1/10000 respectively. Blots were developed with 800CW Goat anti Rabbit and 680CW Goat anti Mouse secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034)

Predicted band size: 22 kDa



Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034)

P27 KIP 1 Western blot staining using rabbit Anti-p27 KIP 1 antibody

False colour image of Western blot: Anti-p27 KIP 1 antibody [Y236] staining at 1/5000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] (ab7291) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab32034 was shown to bind specifically to p27 KIP 1. A band was observed at 28 kDa in wild-type RAW 264.7 cell lysates with no signal observed at this size in CDKN1B knockout cell line ab281619 (knockout cell lysate ab282970). To generate this image, wild-type and CDKN1B knockout RAW 264.7 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (ab216776) at 1/20000 dilution.
All lanes:
Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034) at 1/5000 dilution

Lane 1:
Wild-type RAW 264.7 cell lysate at 20 µg

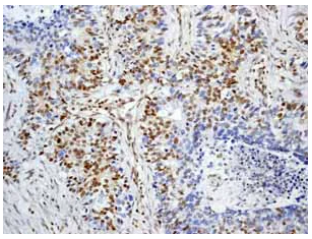
Lane 2:
CDKN1B knockout RAW 264.7 cell lysate at 20 µg

Lane 2:
Western blot - Mouse CDKN1B (p27 KIP 1) knockout RAW 264.7 cell line (ab281619)

Performed under reducing conditions.

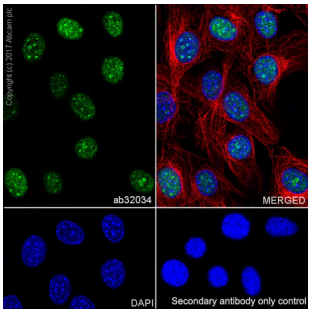
Predicted band size: 22 kDa

Observed band size: 28 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p27 KIP 1 antibody [Y236] (ab32034)

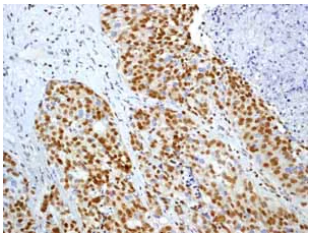
Unpurified ab32034 showing positive staining in Stomach adenocarcinoma tissue. Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0).



Immunocytochemistry/ Immunofluorescence - Anti-p27 KIP 1 antibody [Y236] (ab32034)

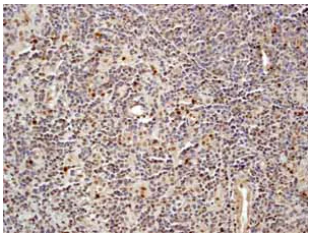
P27 KIP 1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-p27 KIP 1 antibody

Immunocytochemistry/ Immunofluorescence analysis of RAW264.7(Mouse Abelson murine leukemia virus-induced tumor macrophage) treated with 100ng/ml LPS for 7 h and 1µg/ml BFA for the last 3h cells labeling p27 KIP 1 with purified ab32034 at 1/100 dilution(5.22 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 dilution (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



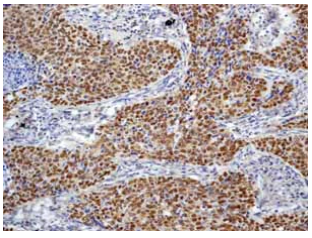
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p27 KIP 1 antibody [Y236] (ab32034)

Unpurified ab32034 showing positive staining in Ovarian carcinoma tissue. Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0).



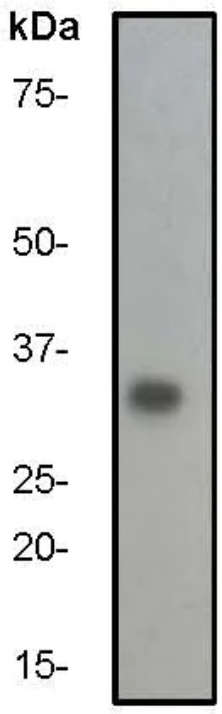
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p27 KIP 1 antibody [Y236] (ab32034)

Unpurified ab32034 showing positive staining in Glioma tissue. Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p27 KIP 1 antibody [Y236] (ab32034)

Unpurified ab32034 showing positive staining in Colonic adenocarcinoma tissue. Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0).



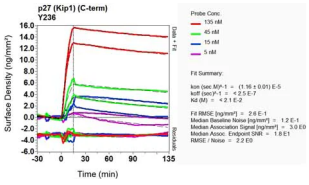
Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034)

All lanes:
Western blot - Anti-p27 KIP 1 antibody [Y236] (ab32034) at 1/1000 dilution

All lanes:
MCF-7 cell lysate

Predicted band size: 22 kDa

Observed band size: 27 kDa



OI-RD Scanning - Anti-p27 KIP 1 antibody [Y236] (ab32034)

We have systematically measured KD (the equilibrium dissociation constant between the antibody and its antigen), of more than 840 recombinant antibodies to assess not only their individual KD values but also to see the average affinity of antibody. Based on the comparison with published literature values for mouse monoclonal antibodies, Recombinant antibodies appear to be on average 1-2 order of magnitude higher affinity.

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