abcam

ab40890

Anti-Cyclin E2 antibody [EP454Y]

Anti-Cyclin E2 antibody [EP454Y] (ab40890) is a rabbit monoclonal antibody detecting Cyclin E2 in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF**. Suitable for **Human**.

- KO validated for confirmed specificity
- Biophysical QC for unrivalled batch-batch consistency
- Over 20 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	EP454Y
Purification technique	Affinity purification Protein A
Concentration	0.145 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/20 - 1/50
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/50 - 1/250
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/20
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target data

See full target information Cyclin E2

Function	Essential for the control of the cell cycle at the late G1 and early S phase.

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-Cyclin E2 antibody [EP454Y] (ab40890) 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 samples.

What is the molecular weight of Cyclin E2?
Anti-Cyclin E2 [EP454Y] (ab40890) specifically detects a band for Cyclin E2 (UniProt: O96020) at a molecular weight of 50kDa.

Trusted by the scientific community
Anti-Cyclin E2 [EP454Y] (ab40890) was first used in a scientific publication in 2006 and has been cited over 20 times in peer-reviewed journals.

Specificity confirmed
The specificity of Anti-Cyclin E2 antibody [EP454Y] (ab40890) has been confirmed by Western blot testing in Cyclin E2 Knockout HAP1 cells.

Other related products
We have a range of other formats of antibody clone [EP454Y] also available for your convenience: ab40890, Alexa Fluor® 488 - ab200423, Alexa Fluor® 647 - ab200424, HRP - ab200425, Carrier free - ab239833, APC - ab319291, PE - ab319438, Alexa Fluor® 594 - ab319784, Alexa Fluor® 555 - ab319925, Alexa Fluor® 750 - ab321628

Species reactivity
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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.

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

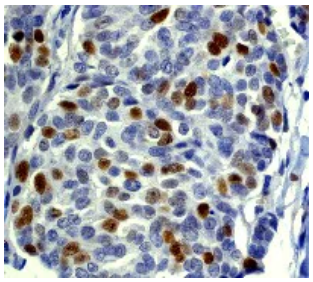
We do not recommend this combination. It is not covered by our product promise.

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.

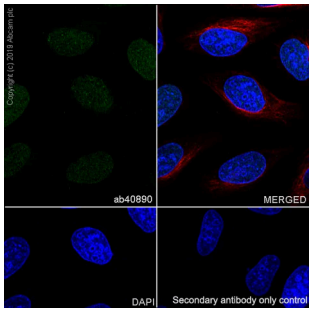
7 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin E2 antibody [EP454Y] (ab40890)

Cyclin E2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cyclin E2 antibody

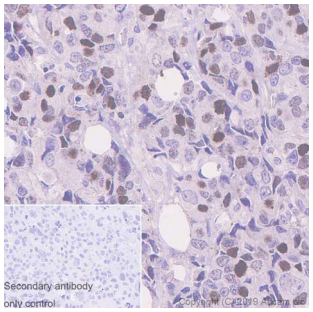
ab40890 (unpurified) at 1/250 staining human breast carcinoma by immunohistochemistry, paraffin-embedded tissue.



Immunocytochemistry/ Immunofluorescence - Anti-Cyclin E2 antibody [EP454Y] (ab40890)

Cyclin E2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Cyclin E2 antibody

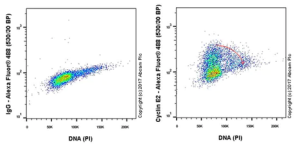
Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Cyclin E2 with purified ab40890 at 1:50 dilution (2.8 µg/ml). Cells were fixed in 100% Methanol and permeabilized with None. Cells were counterstained with ab195889 Anti-alpha Tubulin 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 (2 µg/ml) dilution. DAPI (blue) 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-Cyclin E2 antibody [EP454Y] (ab40890)

Cyclin E2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cyclin E2 antibody

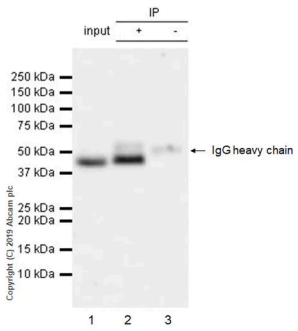
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue sections labeling Cyclin E2 with purified ab40890 at 1/100 dilution (1.41 µg/ml). Heat mediated antigen retrieval was performed Perform heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Flow Cytometry (Intracellular) - Anti-Cyclin E2 antibody [EP454Y] (ab40890)

Cyclin E2 Flow Cytometry (Intracellular) staining using rabbit Anti-Cyclin E2 antibody

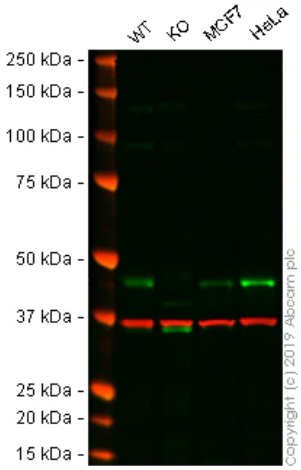
Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling Cyclin E2 (right) with purified ab40890 at a 1/20 dilution. Cells were fixed with 90% ethanol and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluorr® 488) (ab150077) was used as the secondary antibody at a 1/2000 dilution.
Left panel - Rabbit monoclonal IgG (ab172730).



Immunoprecipitation - Anti-Cyclin E2 antibody [EP454Y] (ab40890)

ab40890 (purified) at 1/20 dilution (1 µg) immunoprecipitating Cyclin E2 in Jurkat whole cell lysate.
Lane 1 (input): Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10 µg
Lane 2 (+): ab40890 & Jurkat whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab40890 in Jurkat whole cell lysate
For western blotting, VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1/5000 dilution.
Blocking and diluting buffer: 5% NFDM/TBST.
All lanes:
Immunoprecipitation - Anti-Cyclin E2 antibody [EP454Y] (ab40890)

Predicted band size: 47 kDa



Western blot - Anti-Cyclin E2 antibody [EP454Y] (ab40890)

Cyclin E2 Western blot staining using rabbit Anti-Cyclin E2 antibody

Lanes 1 - 4: Merged signal (red and green). Green - ab40890 observed at 45 kDa. Red - loading control, ab8245 (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.
ab40890 was shown to react with CCNE2 in HAP1 wild-type cells in Western blot. Loss of signal was observed when CCNE2 knockout sample was used. HAP1 wild-type and CCNE2 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% Milk in TBS-T (0.1% Tween®) before incubation with ab40890 and ab8245 (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (ab216772) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-Cyclin E2 antibody [EP454Y] (ab40890) at 1/10000 dilution

Lane 1:
Wild-type HAP1 whole cell lysate at 20 µg

Lane 2:
CCNE2 knockout HAP1 whole cell lysate at 20 µg

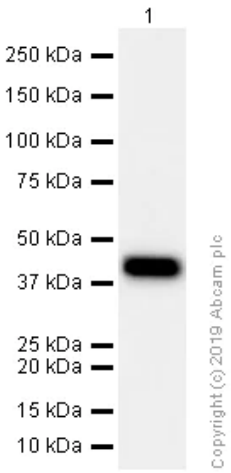
Lane 3:
MCF7 whole cell lysate at 20 µg

Lane 4:
HeLa whole cell lysate at 20 µg

Performed under reducing conditions.

Predicted band size: 47 kDa

Observed band size: 45 kDa



Western blot - Anti-Cyclin E2 antibody [EP454Y] (ab40890)

All lanes:
Western blot - Anti-Cyclin E2 antibody [EP454Y] (ab40890) at 1/1000 dilution

All lanes:
Jurkat (Human T cell leukemia T lymphocyte) 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: 47 kDa

Observed band size: 45 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.