abcam

ab255611

Anti-BAP1 antibody [EPR22826-65]

Anti-BAP1 antibody [EPR22826-65] (ab255611) is a rabbit monoclonal antibody detecting BAP1 in **Western Blot, Flow Cytometry (Intra), IHC-P**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | 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	EPR22826-65
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human, Rat, Mouse
Dilution info	-

Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Expected

Species	Rat
Dilution info	-
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/100
Notes	-

Species	Rat
Dilution info	1/100
Notes	-

Species	Human
Dilution info	1/100
Notes	-

ICC/IF

Not recommended

Species	Human, Rat, Mouse
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/60
Notes	-

Expected

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

Target data

See full target information BAP1

Function

Deubiquitinating enzyme that plays a key role in chromatin by mediating deubiquitination of histone H2A and HCFC1 (PubMed:12485996, PubMed:18757409, PubMed:20436459, PubMed:25451922, PubMed:35051358). Catalytic component of the polycomb repressive deubiquitinase (PR-DUB) complex, a complex that specifically mediates deubiquitination of histone H2A monoubiquitinated at 'Lys-120' (H2AK119ub1) (PubMed:20436459, PubMed:25451922, PubMed:30664650, PubMed:35051358). Does not deubiquitinate monoubiquitinated histone H2B (PubMed:20436459, PubMed:30664650). The PR-DUB complex is an epigenetic regulator of gene expression and acts as a transcriptional coactivator, affecting genes involved in development, cell communication, signaling, cell proliferation and cell viability (PubMed:20805357, PubMed:30664650, PubMed:36180891). Antagonizes PRC1 mediated H2AK119ub1 monoubiquitination (PubMed:30664650). As part of the PR-DUB complex, associates with chromatin enriched in histone marks H3K4me1, H3K4me3, and H3K27Ac, but not in H3K27me3 (PubMed:36180891). Recruited to specific gene-regulatory regions by YY1 (PubMed:20805357). Acts as a regulator of cell growth by mediating deubiquitination of HCFC1 N-terminal and C-terminal chains, with some specificity toward 'Lys-48'-linked polyubiquitin chains compared to 'Lys-63'-linked polyubiquitin chains (PubMed:19188440, PubMed:19815555).

Deubiquitination of HCFC1 does not lead to increase stability of HCFC1 (PubMed:19188440, PubMed:19815555). Interferes with the BRCA1 and BARD1 heterodimer activity by inhibiting their ability to mediate ubiquitination and autoubiquitination (PubMed:19117993). It however does not mediate deubiquitination of BRCA1 and BARD1 (PubMed:19117993). Able to mediate autodeubiquitination via intramolecular interactions to counteract monoubiquitination at the nuclear localization signal (NLS), thereby protecting it from cytoplasmic sequestration (PubMed:24703950). Negatively regulates epithelial-mesenchymal transition (EMT) of trophoblast stem cells during placental development by regulating genes involved in epithelial cell integrity, cell adhesion and cytoskeletal organization (PubMed:34170818).

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-BAP1 antibody [EPR22826-65] (ab255611) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunohistochemistry (IHC-P) in Human, Mouse, Rat samples.

What is the molecular weight of BAP1?
Anti-BAP1 [EPR22826-65] (ab255611) specifically detects a band for BAP1 (UniProt: Q92560) at a molecular weight of 80kDa.

Other related products
We have a range of other formats of antibody clone [EPR22826-65] also available for your convenience: ab255611, Carrier free - ab256480

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

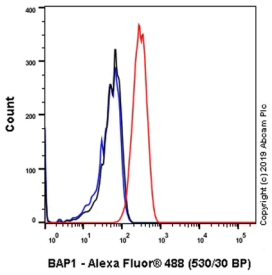
We do not recommend this combination. It is not covered by our product promise.

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.

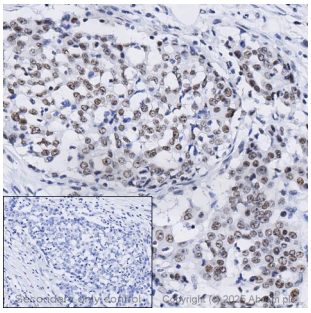
7 product images



Flow Cytometry (Intracellular) - Anti-BAP1 antibody [EPR22826-65] (ab255611)

BAP1 Flow Cytometry (Intracellular) staining using rabbit Anti-BAP1 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized PC-3 (human prostate adenocarcinoma epithelial cell) cells labeling BAP1 with ab255611 at 1/60 (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



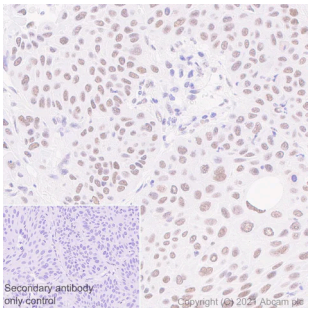
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAP1 antibody [EPR22826-65] (ab255611)

BAP1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human colon carcinoma tissue using rabbit Anti-BAP1 antibody

Immunohistochemical analysis of formalin fixed paraffin embedded human colon carcinoma labelling BAP1 with ab255611 at a concentration of 1µg/ml. The immunostaining was performed on a Ventana DISCOVERY ULTRA (Roche Tissue Diagnostics) instrument with a OptiView DAB IHC Detection Kit. Heat mediated antigen retrieval was performed with DISCOVERY cell conditioning solution (CC1) 100°C, pH8.5 for 32mins.

ab255611 anti-BAP1 antibody [EPR22826-65] was incubated for 16mins at 37°C. Sections were counterstained with Hematoxylin II. Image inset shows absence of staining in secondary antibody only control.

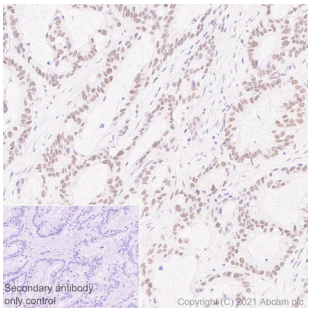
Customers are encouraged to optimise antigen retrieval conditions, antibody concentration, incubation times and temperature for best results in their own IHC assay workflow (automated and manual)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAP1 antibody [EPR22826-65] (ab255611)

BAP1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-BAP1 antibody

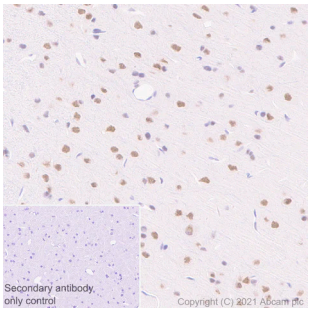
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung carcinoma tissue labelling BAP1 with ab255611 at 1/100 dilution. Heat mediated antigen retrieval was performed usingTris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins, LeicaDS9800 (Bond™ Polymer Refine Detection) was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin. Nuclear staining on human lung carcinoma. The section was incubated with ab255611 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAP1 antibody [EPR22826-65] (ab255611)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon carcinoma tissue labelling BAP1 with ab255611 at 1/100 dilution. Heat mediated antigen retrieval was performed usingTris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins, LeicaDS9800 (Bond™ Polymer Refine Detection) was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin. Nuclear staining on human colon carcinoma. The section was incubated with ab255611 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

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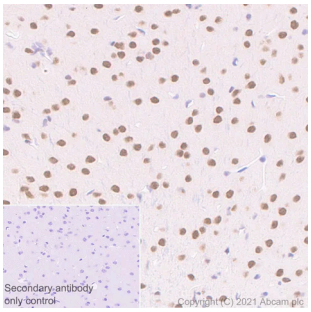


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAP1 antibody [EPR22826-65] (ab255611)

BAP1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-BAP1 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat cerebrum tissue labelling BAP1 with ab255611 at 1/100 dilution. Heat mediated antigen retrieval was performed usingTris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins, LeicaDS9800 (Bond™ Polymer Refine Detection) was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin. Nuclear staining on rat cerebrum. The section was incubated with ab255611 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

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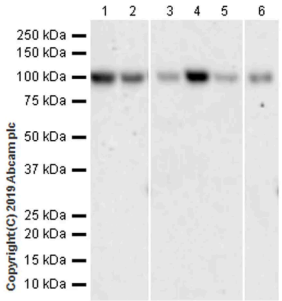


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAP1 antibody [EPR22826-65] (ab255611)

BAP1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-BAP1 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse cerebrum tissue labelling BAP1 with ab255611 at 1/100 dilution. Heat mediated antigen retrieval was performed usingTris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins, LeicaDS9800 (Bond™ Polymer Refine Detection) was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin. Nuclear staining on mouse cerebrum. The section was incubated with ab255611 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

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Western blot - Anti-BAP1 antibody [EPR22826-65] (ab255611)

BAP1 Western blot staining using rabbit Anti-BAP1 antibody

The molecular weight observed is consistent with what has been described in the literature (PMID: 18757409).
Blocking/Dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-BAP1 antibody [EPR22826-65] (ab255611) at 1/1000 dilution

Lane 1:
HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate at 20 µg

Lane 2:
PC-3 (human prostate adenocarcinoma epithelial cell), whole cell lysate at 20 µg

Lane 3:
HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate at 20 µg

Lane 4:
A375 (human malignant melanoma epithelial cell), whole cell lysate at 20 µg

Lane 5:
MDA-MB-231 (human breast adenocarcinoma epithelial cell), whole cell lysate at 20 µg

Lane 6:
A549 (human lung carcinoma epithelial cell), whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 80 kDa

Observed band size: 100 kDa

Exposure time: 3min

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