




Product datasheet

Anti-RAP80 antibody ab244464

6 Images

Overview

Product name	Anti-RAP80 antibody
Description	Rabbit polyclonal to RAP80
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Pig 
Immunogen	Recombinant fragment corresponding to Human RAP80 aa 207-301. Sequence: PVFENVVKSFDRCTGHSAEHTQCGKPQESTGRGSAFL KAVQGSGDTSRH CLPTLADAKGLQDTGGTVNYFWGIPFCPDGVDPNQYTKVI LCQLE Database link: Q96RL1  Run BLAST with  Run BLAST with
Positive control	IHC-P: Human lymph node, colon, testis and cerebral cortex tissue. WB: RAP80 transfected HEK-293T cell lysate ICC/IF: U-2 OS cells.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions,</p>

special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab244464** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.04 - 0.4 µg/ml.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.
IHC-P		1/20 - 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	Ubiquitin-binding protein that specifically recognizes and binds 'Lys-63'-linked ubiquitin. Plays a central role in the BRCA1-A complex by specifically binding 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at double-strand breaks (DSBs). The BRCA1-A complex also possesses deubiquitinase activity that specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX. Also weakly binds monoubiquitin but with much less affinity than 'Lys-63'-linked ubiquitin. May interact with monoubiquitinated histones H2A and H2B; the relevance of such results is however unclear in vivo. Does not bind Lys-48'-linked ubiquitin. May indirectly Act as a transcriptional repressor by inhibiting the interaction of NR6A1 with the corepressor NCOR1.
Tissue specificity	Expressed in testis, ovary, thymus and heart. Expressed in germ cells of the testis.
Sequence similarities	Belongs to the RAP80 family. Contains 2 UIM (ubiquitin-interacting motif) repeats.

Domain

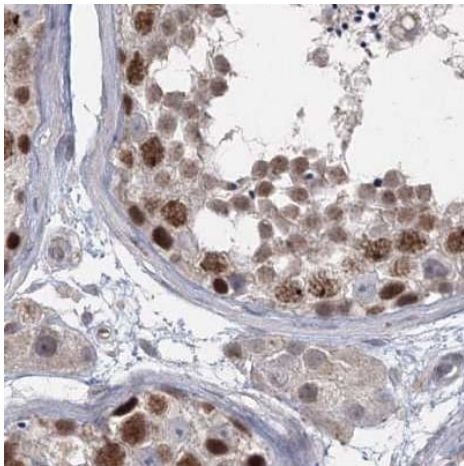
The UIM-linker region between the 2 UIM repeats determines the selectivity for 'Lys-63'-linked ubiquitin. The length of the linker is important. The linker reduces the flexibility between the UIM repeats and promotes high-affinity and linkage-selective interactions.
The Abraxas-interacting region (AIR) mediates the interaction with FAM175A/Abraxas.

Post-translational modifications

Sumoylated.
Phosphorylated upon DNA damage by ATM or ATR.

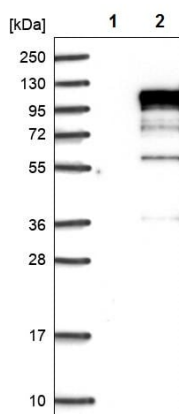
Cellular localization

Nucleus. Localizes at sites of DNA damage at double-strand breaks.

Images

Paraffin-embedded human testis tissue stained for RAP80 using ab244464 at 1/20 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAP80 antibody (ab244464)

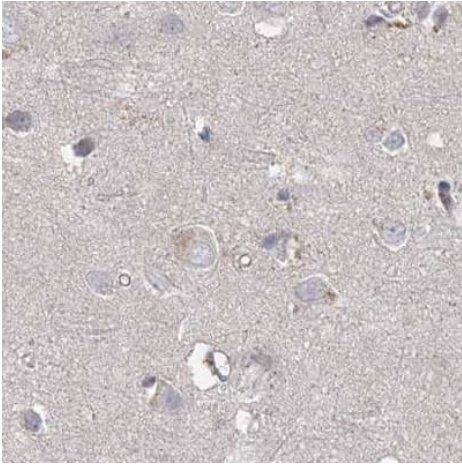


All lanes : Anti-RAP80 antibody (ab244464) at 0.4 µg/ml

Lane 1 : Vector only transfected control.

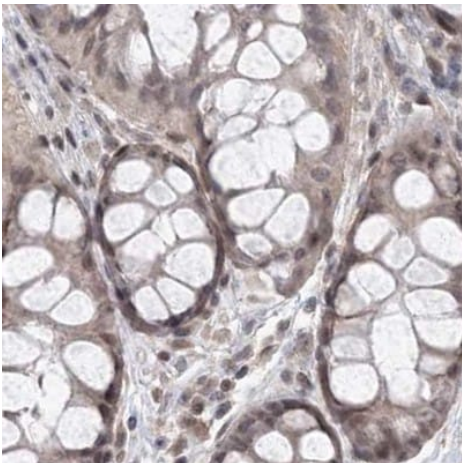
Lane 2 : RAP80 transfected HEK-293T cell lysate

Western blot - Anti-RAP80 antibody (ab244464)



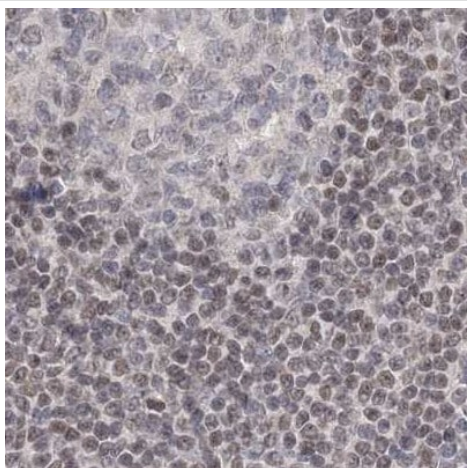
Paraffin-embedded human cerebral cortex tissue stained for RAP80 using ab244464 at 1/20 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAP80 antibody (ab244464)



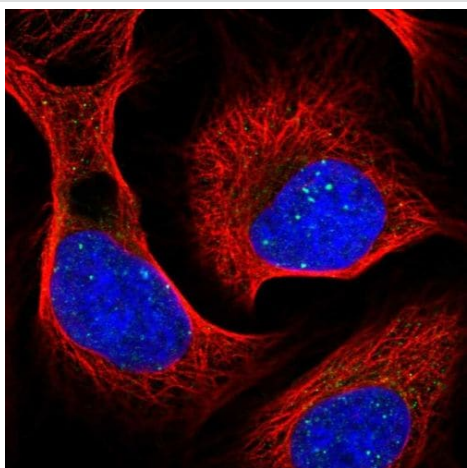
Paraffin-embedded human colon tissue stained for RAP80 using ab244464 at 1/20 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAP80 antibody (ab244464)



Paraffin-embedded human lymph node tissue stained for RAP80 using ab244464 at 1/20 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAP80 antibody (ab244464)



PFA-fixed, Triton X-100 permeabilized U-2 OS (human bone osteosarcoma epithelial cell line) cells stained for RAP80 (green) using ab244464 at 4 µg/ml in ICC/IF.

Immunocytochemistry/ Immunofluorescence - Anti-RAP80 antibody (ab244464)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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