

Product datasheet

Anti-RAP80 antibody [EPR5315] ab124763

Recombinant RabMAb

★★★★★ 1 Abreviews 6 References 3 Images

Overview

Product name	Anti-RAP80 antibody [EPR5315]
Description	Rabbit monoclonal [EPR5315] to RAP80
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Synthetic peptide within Human RAP80 aa 1-100. The exact sequence is proprietary.
Positive control	HeLa, Human ovary cancer, 293T and HT-1080 cell lysates; Human testis tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5315

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab124763 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	★★★★★ (1)	1/10000 - 1/50000. Detects a band of approximately 80 kDa (predicted molecular weight: 80 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Heat up to 98 degrees C, below boiling, and then let cool for 10-20 min.

Application notes

Is unsuitable for Flow Cyt or IP.

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.

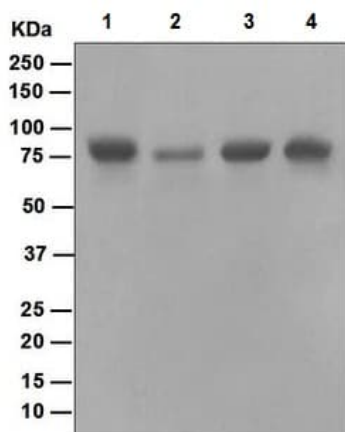
Post-translational modifications

Sumoylated.
Phosphorylated upon DNA damage by ATM or ATR.

Cellular localization

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

Images



Western blot - Anti-RAP80 antibody [EPR5315] (ab124763)

All lanes : Anti-RAP80 antibody [EPR5315] (ab124763) at 1/10000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : Human ovary cancer lysate

Lane 3 : 293T cell lysate

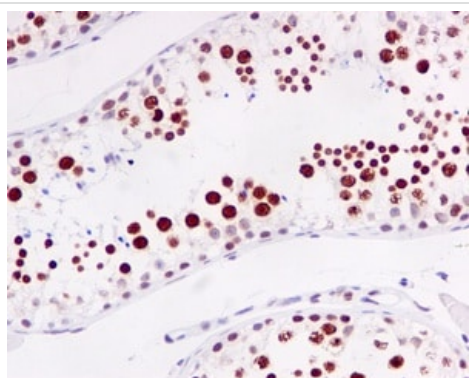
Lane 4 : HT-1080 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 80 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAP80 antibody [EPR5315] (ab124763)

ab124763, at 1/250, staining RAP80 in paraffin-embedded Human testis tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-RAP80 antibody [EPR5315] (ab124763)

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

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