


Product datasheet

Anti-RAP80 antibody ab70822

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Overview

Product name	Anti-RAP80 antibody
Description	Rabbit polyclonal to RAP80
Host species	Rabbit
Tested applications	Suitable for: IP, WB
Species reactivity	Reacts with: Human Predicted to work with: Chimpanzee, Gorilla 
Immunogen	Synthetic peptide corresponding to a region between residues 600 and 650 of human RAP80 (NP_057374.3).
Positive control	HeLa and 293T whole cell lysates.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, 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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab70822 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
IP		Use at 2-5 µg/mg of lysate.
WB		1/1000 - 1/10000. Detects a band of approximately 100 kDa (predicted molecular weight: 80 kDa).

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.

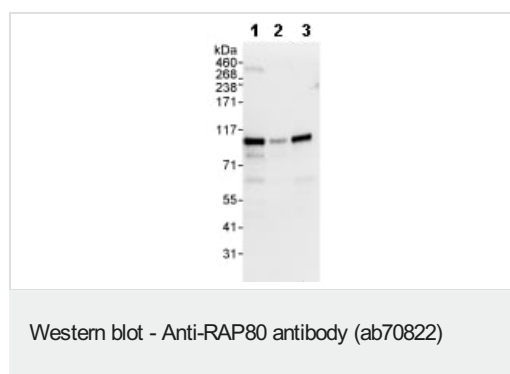
Post-translational modifications

Sumoylated.
Phosphorylated upon DNA damage by ATM or ATR.

Cellular localization

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

Images



All lanes : Anti-RAP80 antibody (ab70822) at 1 µg/ml

Lane 1 : HeLa whole cell lysate at 15 µg

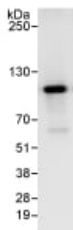
Lane 2 : HeLa whole cell lysate at 5 µg

Lane 3 : 293T whole cell lysate at 50 µg

Predicted band size: 80 kDa

Observed band size: 100 kDa

Additional bands at: 300 kDa, 65 kDa, 80 kDa. We are unsure as to the identity of these extra bands.



Immunoprecipitation - Anti-RAP80 antibody
(ab70822)

Detection of Human RAP80 by Immunoprecipitation in Whole cell lysate from HeLa cells (1 mg for IP, 20% of IP loaded), using ab70822 at 3 µg/mg lysate for IP and at 1 µg/ml for subsequent Western blot detection.

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