

# Anti-RAP80 antibody [EPR5315] - BSA and Azide free ab247991

Recombinant RabMAb

3 Images

### Overview

|                     |   |
|---------------------|---|
| Product name        | Anti-RAP80 antibody [EPR5315] - BSA and Azide free  |
| Description         | Rabbit monoclonal [EPR5315] to RAP80 - BSA and Azide free   |
| Host species        | Rabbit  |
| Tested applications | <b>Suitable for:</b> WB, IHC-P<br><b>Unsuitable for:</b> Flow Cyt or IP   |
| Species reactivity  | <b>Reacts with:</b> Human<br><b>Does not react with:</b> Mouse, Rat   |
| Immunogen           | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.   |
| General notes       | <p>ab247991 is the carrier-free version of <a href="#">ab124763</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> |

## Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| <b>Storage buffer</b>       | pH: 7.2<br>Constituent: PBS                   |
| <b>Carrier free</b>         | Yes   |
| <b>Purity</b>               | Protein A purified                            |
| <b>Clonality</b>            | Monoclonal                                    |
| <b>Clone number</b>         | EPR5315                                       |
| <b>Isotype</b>              | IgG   |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab247991 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  |
|--------------|-----------|--|
| <b>WB</b>    |           | Use at an assay dependent concentration. Detects a band of approximately 80 kDa (predicted molecular weight: 80 kDa).  |
| <b>IHC-P</b> |           | Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.<br>For antigen retrieval, heat up to 98 degree C, below boiling, and then let cool for 10-20 minutes. |

**Application notes** Is unsuitable for Flow Cyt or IP.

## Target

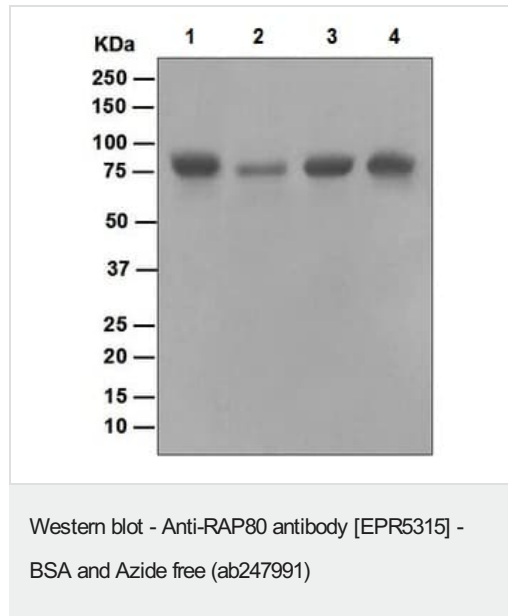
|                              |  |
|------------------------------|--|
| <b>Function</b>              | Ubiquitin-binding protein that specifically recognizes and binds 'Lys-63'-linked ubiquitin. Plays a central role in the BRCA1-A complex by specifically binding 'Lys-63'-linked ubiquitinated histones 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. |
| <b>Tissue specificity</b>    | Expressed in testis, ovary, thymus and heart. Expressed in germ cells of the testis.   |
| <b>Sequence similarities</b> | Belongs to the RAP80 family.<br>Contains 2 UIM (ubiquitin-interacting motif) repeats.  |
| <b>Domain</b>                | 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.  
Sumoylated.  
Phosphorylated upon DNA damage by ATM or ATR.  
Nucleus. Localizes at sites of DNA damage at double-strand breaks.

**Post-translational modifications**

**Cellular localization**

**Images**



**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

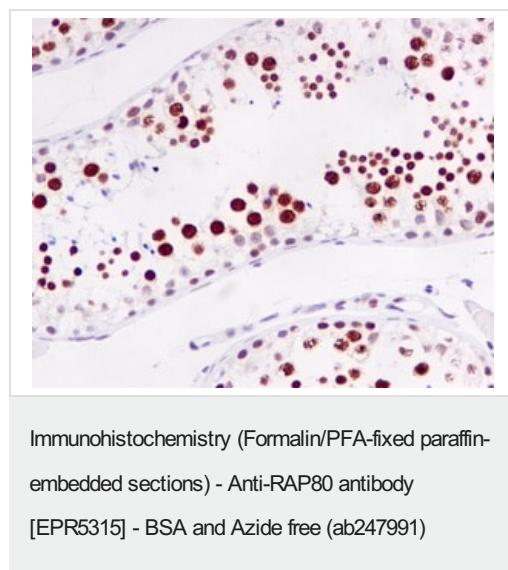
Lysates/proteins at 10 µg per lane.

**Secondary**

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

**Predicted band size:** 80 kDa

This data was developed using [ab124763](#), the same antibody clone in a different buffer formulation.



This data was developed using [ab124763](#), the same antibody clone in a different buffer formulation. [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] - BSA and Azide free (ab247991)

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

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