


# Anti-RP2 antibody [EPR11362] - BSA and Azide free ab249828

Recombinant RabMAb

[3 Images](#)

### Overview

<b>Product name</b>	Anti-RP2 antibody [EPR11362] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR11362] to RP2 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, Flow Cyt (Intra) <b>Unsuitable for:</b> IF,IHC or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab249828 is the carrier-free version of <a href="#">ab174840</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

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<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 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR11362
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab249828 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. Predicted molecular weight: 40 kDa.
<b>Flow Cyt (Intra)</b>		Use at an assay dependent concentration.

**Application notes** Is unsuitable for IF, IHC or IP.

## Target

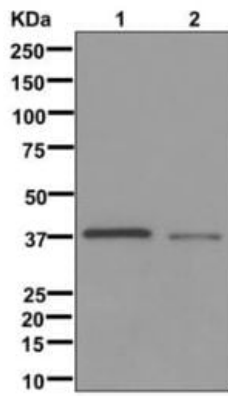
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**Relevance** Function: Acts as a GTPase-activating protein (GAP) involved in trafficking between the Golgi and the ciliary membrane. Involved in localization of proteins, such as NPHP3, to the cilium membrane by inducing hydrolysis of GTP ARL3, leading to the release of UNC119 (or UNC119B). Acts as a GTPase-activating protein (GAP) for tubulin in concert with tubulin-specific chaperone C, but does not enhance tubulin heterodimerization. Acts as guanine nucleotide dissociation inhibitor towards ADP-ribosylation factor-like proteins. Tissue specificity: Ubiquitous. Expressed in the rod and cone photoreceptors, extending from the tips of the outer segment (OS) through the inner segment (IS) and outer nuclear layer (ONL) and into the synaptic terminals of the outer plexiform layer (ONL). Also detected in the bipolar, horizontal and amacrine cells in the inner nuclear layer (INL), extending to the inner plexiform layer (IPL) and through the ganglion cell layer (GCL) and into the nerve fiber layer (NFL) (at protein level). Disease: Retinitis pigmentosa 2 Similarity: Belongs to the TBCC family. Contains 1 C-CAP/cofactor C-like domain. PTM: Myristoylated on Gly-2; which may be required for membrane targeting. Palmitoylated on Cys-3; which may be required for plasma membrane targeting (Probable). Mutation of Cys-3 targets the protein to internal membranes.

**Cellular localization** Cell membrane; Lipid-anchor; Cytoplasmic side

## Images

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Western blot - Anti-RP2 antibody [EPR11362] - BSA and Azide free (ab249828)

**All lanes :** Anti-RP2 antibody [EPR11362] (**ab174840**) at 1/1000 dilution

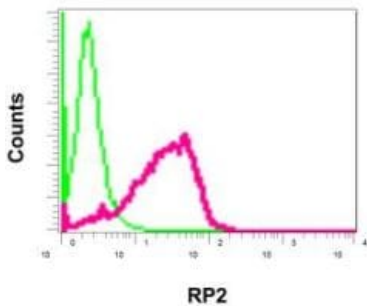
**Lane 1 :** HeLa cell lysate

**Lane 2 :** Sh-SY5Y cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 40 kDa

This data was developed using **ab174840**, the same antibody clone in a different buffer formulation.





Flow Cytometry (Intracellular) - Anti-RP2 antibody [EPR11362] - BSA and Azide free (ab249828)


This data was developed using **ab174840**, the same antibody clone in a different buffer formulation.


Intracellular flow cytometric analysis of permeabilized HeLa cells labeling RP2 with **ab174840** at a 1/100 dilution (red), or a rabbit IgG (negative) (green).

### Why choose a recombinant antibody?

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**Research with confidence**  
Consistent and reproducible results
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**Long-term and scalable supply**  
Recombinant technology
- 

**Success from the first experiment**  
Confirmed specificity
- 

**Ethical standards compliant**  
Animal-free production

Anti-RP2 antibody [EPR11362] - BSA and Azide free (ab249828)

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

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