


Product datasheet

Anti-Septin 2 antibody [EPR12123] - BSA and Azide free ab250084

Recombinant RabMAb

[7 Images](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-Septin 2 antibody [EPR12123] - BSA and Azide free |
| Description | Rabbit monoclonal [EPR12123] to Septin 2 - BSA and Azide free |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, IP, IHC-P, Flow Cyt (Intra), ICC/IF |
| Species reactivity | Reacts with: Human Predicted to work with: Mouse, Rat, Xenopus laevis  |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| General notes | <p>ab250084 is the carrier-free version of ab179436.</p> <p>Our carrier-free 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 conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <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[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] 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">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| Storage buffer | pH: 7.2 Constituent: PBS |
| Carrier free | Yes |
| Purity | Affinity purified |
| Clonality | Monoclonal |
| Clone number | EPR12123 |
| Isotype | IgG |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab250084 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 at an assay dependent concentration. Predicted molecular weight: 41 kDa. |
| IP | | Use at an assay dependent concentration. |
| IHC-P | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| Flow Cyt (Intra) | | Use at an assay dependent concentration. |
| ICC/IF | | Use at an assay dependent concentration. |

Target

Function Filament-forming cytoskeletal GTPase. Required for normal organization of the actin cytoskeleton. Plays a role in the biogenesis of polarized columnar-shaped epithelium by maintaining polyglutamylated microtubules, thus facilitating efficient vesicle transport, and by impeding MAP4 binding to tubulin. Required for the progression through mitosis. Forms a scaffold at the midplane of the mitotic spindle required to maintain CENPE localization at kinetochores and consequently chromosome congression. During anaphase, may be required for chromosome segregation and spindle elongation. Plays a role in ciliogenesis and collective cell movements. In cilia, required for the integrity of the diffusion barrier at the base of the primary cilium that prevents diffusion of transmembrane proteins between the cilia and plasma membranes: probably acts by regulating the assembly of the tectonic-like complex (also named B9 complex) by localizing TMEM231 protein. May play a role in the internalization of 2 intracellular microbial pathogens, *Listeria monocytogenes* and *Shigella flexneri*.

Tissue specificity Widely expressed. Up-regulated in liver cancer.

Sequence similarities

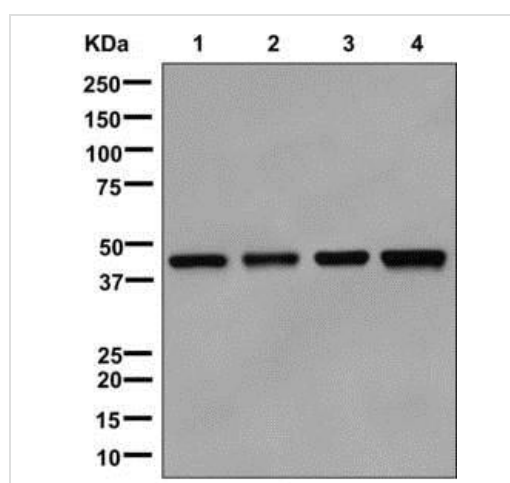
Belongs to the TRAFAC class TrmE-Era-EngA-EngB-Septin-like GTPase superfamily. Septin GTPase family.

Contains 1 septin-type G (guanine nucleotide-binding) domain.

Cellular localization

Cytoplasm. Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, spindle. Chromosome, centromere, kinetochore. Cleavage furrow. Midbody. Cytoplasm, cell cortex. Cell projection, cilium membrane. In metaphase cells, localized within the microtubule spindle. At the metaphase plate, in close apposition to the kinetochores of the congressed chromosomes. In cells undergoing cytokinesis, localized to the midbody, the ingressing cleavage furrow, and the central spindle. During bacterial infection, displays a collar shape structure next to actin at the pole of invading bacteria. In epithelial cells, colocalizes with polyglutamylated tubulin around the trans-Golgi network, as well as juxtanuclear and proximal Golgi apparatus. Localizes at the base of the cilia near the morphological distinction between the cilia and plasma membranes.

Images



Western blot - Anti-Septin 2 antibody [EPR12123] - BSA and Azide free (ab250084)

All lanes : Anti-Septin 2 antibody [EPR12123] ([ab179436](#)) at 1/1000 dilution

Lane 1 : Human fetal brain lysate

Lane 2 : U87-MG lysate

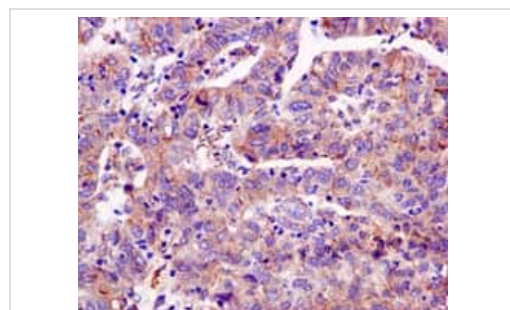
Lane 3 : Jurkat lysate

Lane 4 : MCF-7 lysate

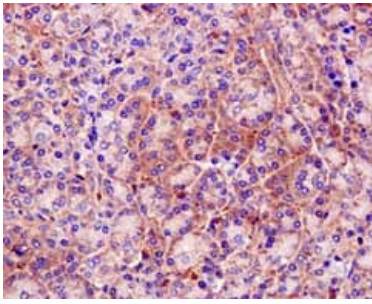
Lysates/proteins at 10 µg per lane.

Predicted band size: 41 kDa

This data was developed using [ab179436](#), the same antibody clone in a different buffer formulation.

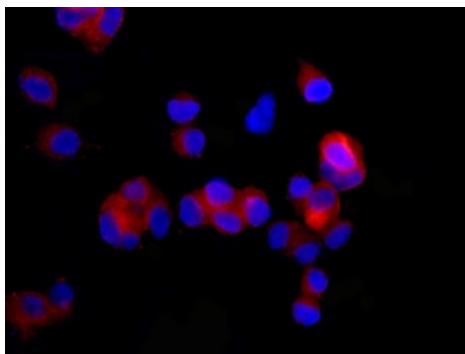


This data was developed using [ab179436](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling Septin 2 with [ab179436](#) at 1/50 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



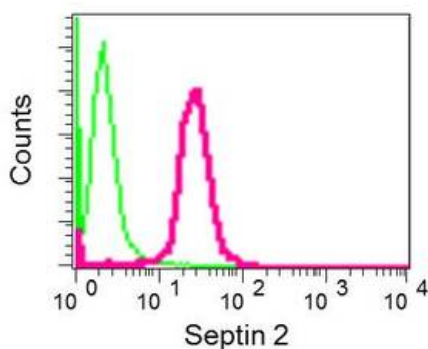
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Septin 2 antibody [EPR12123] - BSA and Azide free (ab250084)

This data was developed using **ab179436**, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling Septin 2 with **ab179436** at 1/50 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Septin 2 antibody [EPR12123] - BSA and Azide free (ab250084)

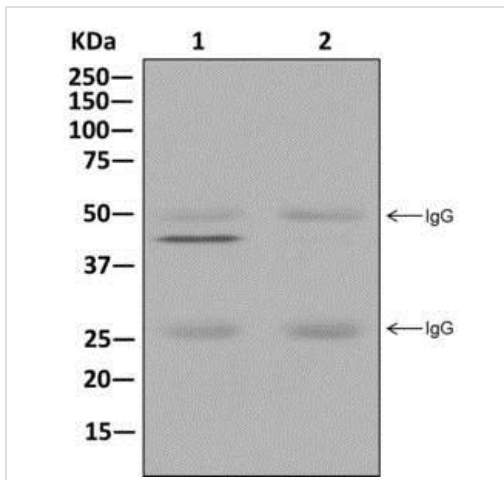
This data was developed using **ab179436**, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of MCF-7 cells labeling Septin 2 with **ab179436** at 1/50 dilution (red). DAPI nuclear staining (blue).



Flow Cytometry (Intracellular) - Anti-Septin 2 antibody [EPR12123] - BSA and Azide free (ab250084)

This data was developed using **ab179436**, the same antibody clone in a different buffer formulation.





Intracellular flow cytometric analysis of permeabilized Jurkat cells labeling Septin 2 with **ab179436** at 1/10 dilution (red) compared to a rabbit IgG negative control (green).



Immunoprecipitation - Anti-Septin 2 antibody
[EPR12123] - BSA and Azide free (ab250084)

This data was developed using [ab179436](#), the same antibody clone in a different buffer formulation. Western blot analysis on immunoprecipitation pellet from (1) MCF-7 cell lysate or (2) 1XPBS (negative control) using [ab179436](#) at a 1/10 dilution for IP, and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

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-Septin 2 antibody [EPR12123] - BSA and Azide free (ab250084)

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

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