Overview

Product name: Anti-JAB1 antibody [EPR1350]
Description: Rabbit monoclonal [EPR1350] to JAB1
Host species: Rabbit
Tested applications: Suitable for: WB, IP, IHC-P, ICC/IF
Unsuitable for: Flow Cyt
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide within Human JAB1 aa 1-100. The exact sequence is proprietary.
Positive control: NIH 3T3, U87-MG, MCF7, and PC12 cell lysates.
General notes: Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents. This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant ($K_D$): $K_D = 6.45 \times 10^{-11}$ M

Storage buffer: pH: 7.20
Preservative: 0.05% Sodium azide
 Constituents: 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant

Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: EPR1350
Isotype: IgG

Function:
Probable protease subunit of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of the SCF-type E3 ligase complexes, leading to decrease the Ubl ligase activity of SCF-type complexes such as SCF, CSA or DDB2. The complex is also involved in phosphorylation of p53/TP53, c-jun/JUN, IkappaBalpha/NFKBIA, ITPK1 and IRF8, possibly via its association with CK2 and PKD kinases. CSN-dependent phosphorylation of TP53 and JUN promotes and protects degradation by the Ubl system, respectively. In the complex, it probably acts as the catalytic center that mediates the cleavage of Nedd8 from cullins. It however has no metalloprotease activity by itself and requires the other subunits of the CSN complex. Interacts directly with a large number of proteins that are regulated by the CSN complex, confirming a key role in the complex.

Sequence similarities:
Belongs to the peptidase M67A family. CSN5 subfamily.
Contains 1 MPN (JAB/Mov34) domain.

Domain:
The JAMM motif is essential for the protease activity of the CSN complex resulting in deneddylation of cullins. It constitutes the catalytic center of the complex.

Cellular localization:
Cytoplasm. Nucleus.

Images:

Applications:

Our Abpromise guarantee covers the use of ab124720 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/1000 - 1/10000. Predicted molecular weight: 38 kDa.</td>
<td></td>
</tr>
<tr>
<td>IP</td>
<td>1/10 - 1/100.</td>
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<tr>
<td>IHC-P</td>
<td>1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
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</tr>
<tr>
<td>ICC/IF</td>
<td>1/50 - 1/100.</td>
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Application notes:
Is unsuitable for Flow Cyt.
Equilibrium disassociation constant (K_D)
Learn more about K_D

Click here to learn more about K_D

All lanes: Anti-JAB1 antibody [EPR1350] (ab124720) at 1/1000 dilution

Lane 1: NIH 3T3 cell lysate
Lane 2: U87-MG cell lysate
Lane 3: MCF7 cell lysate
Lane 4: PC12 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 38 kDa

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

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