Product datasheet

Anti-AMD1 antibody ab65820

Overview

Product name: Anti-AMD1 antibody
Description: Rabbit polyclonal to AMD1
Host species: Rabbit
Tested applications: Suitable for: ICC/IF, WB, IHC-P, IHC-Fr, ICC
Species reactivity: Reacts with: Mouse, Rat, Cow, Human
Immunogen: A synthetic peptide corresponding to a sequence at the C terminus of human AMD1, identical to the related mouse and rat sequence.
Positive control: IHC-P: Mammary cancer sections WB: Rat kidney tissue lysis

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide
Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab65820 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>ICC/IF</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 38 kDa.</td>
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</tbody>
</table>
**Pathway**
Amine and polyamine biosynthesis; S-adenosylmethioninamine biosynthesis; S-adenosylmethioninamine from S-adenosyl-L-methionine: step 1/1.

**Sequence similarities**
Belongs to the eukaryotic AdoMetDC family.

**Post-translational modifications**
Is synthesized initially as an inactive proenzyme. Formation of the active enzyme involves a self-maturation process in which the active site pyruvoyl group is generated from an internal serine residue via an autocatalytic post-translational modification. Two non-identical subunits are generated from the proenzyme in this reaction, and the pyruvate is formed at the N-terminus of the alpha chain, which is derived from the carboxyl end of the proenzyme. The post-translation cleavage follows an unusual pathway, termed non-hydrolytic serinolysis, in which the side chain hydroxyl group of the serine supplies its oxygen atom to form the C-terminus of the beta chain, while the remainder of the serine residue undergoes an oxidative deamination to produce ammonia and the pyruvoyl group blocking the N-terminus of the alpha chain.

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<tr>
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<th>Abreviews</th>
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</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 0.5 - 1 µg/ml.</td>
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<tr>
<td>IHC-Fr</td>
<td></td>
<td>Use a concentration of 0.5 - 1 µg/ml.</td>
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<tr>
<td>ICC</td>
<td></td>
<td>Use a concentration of 2 - 3 µg/ml.</td>
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</tbody>
</table>

**Target**

**Images**

ab65820, at 0.5µg/ml, staining AMD1 in the cytoplasm of formalin fixed and paraffin embedded mammary cancer tissue sections.
Anti-AMD1 antibody (ab65820) at 1 µg/ml + Rat kidney tissue lysis

**Predicted band size:** 38 kDa  
**Observed band size:** 38 kDa  
**Additional bands at:** 58 kDa. We are unsure as to the identity of these extra bands.

**Western blot - Anti-AMD1 antibody (ab65820)**

ICC/IF image of ab65820 stained HepG2 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab65820 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

**Immunocytochemistry/ Immunofluorescence - Anti-AMD1 antibody (ab65820)**

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

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