Product datasheet

Anti-Dysbindin antibody ab175084

4 Images

Overview

Product name: Anti-Dysbindin antibody
Description: Rabbit polyclonal to Dysbindin
Host species: Rabbit
Tested applications: Suitable for: ICC/IF, IHC-P, WB
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Recombinant full length protein corresponding to Human Dysbindin. Database link: Q96EV8
Positive control: Mouse brain cell extract.

Properties

Form: Liquid
Storage buffer: pH: 7.30
Preservative: 0.02% Sodium azide
 Constituents: 50% Glycerol, 49% PBS
Purity: Protein A purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab175084 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>Use at an assay dependent concentration.</td>
<td></td>
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</table>
Function
The BLOC-1 complex is required for normal biogenesis of lysosome-related organelles, such as platelet dense granules and melanosomes. Plays a role in intracellular vesicle trafficking. Plays a role in synaptic vesicle trafficking and in neurotransmitter release. May be required for normal dopamine homeostasis in the cerebral cortex, hippocampus, and hypothalamus. Plays a role in the regulation of cell surface exposure of DRD2. Contributes to the regulation of dopamine signaling. May play a role in actin cytoskeleton reorganization and neurite outgrowth. May modulate MAPK8 phosphorylation.

Tissue specificity
Detected in brain, in neurons and in neuropil. Detected in dentate gyrus and in pyramidal cells of hippocampus CA2 and CA3 (at protein level).

Involvement in disease
Defects in DTNBP1 are the cause of Hermansky-Pudlak syndrome type 7 (HPS7) [MIM:203300]. Hermansky-Pudlak syndrome (HPS) is a genetically heterogeneous, rare, autosomal recessive disorder characterized by oculocutaneous albinism, bleeding due to platelet storage pool deficiency, and lysosomal storage defects. This syndrome results from defects of diverse cytoplasmic organelles including melanosomes, platelet dense granules and lysosomes. Ceroid storage in the lungs is associated with pulmonary fibrosis, a common cause of premature death in individuals with HPS.

Sequence similarities
Belongs to the dysbindin family.

Post-translational modifications
Ubiquitinated by TRIM32. Ubiquitination leads to DTNBP1 degradation. Phosphorylated by PRKDC.

Cellular localization

Images

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</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>1/50 - 1/200.</td>
<td>ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
</tbody>
</table>
Anti-Dysbindin antibody (ab175084) at 1/500 dilution + Mouse brain cell extract

**Predicted band size:** 39 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human esophageal cancer tissue labelling Dysbindin with ab175084 at 1/100. Magnification: 200x.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat lung tissue labelling Dysbindin with ab175084 at 1/100. Magnification: 200x.
Immunocytochemistry/Immunofluorescence analysis of MCF7 cells using ab175084. Blue DAPI for nuclear staining.

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