Product datasheet

Anti-TULP1 antibody ab97281

Overview

Product name
Anti-TULP1 antibody

Description
Rabbit polyclonal to TULP1

Host species
Rabbit

Tested applications
Suitable for: WB, IHC-P

Species reactivity
Reacts with: Human

Predicted to work with: Mouse, Rat

Immunogen
Recombinant fragment containing a sequence corresponding to a region within amino acids 281-520 of Human TULP1 (NP_003313).

Positive control
293T, A431, H1299, HeLaS3, HepG2, Molt-4 and Raji whole cell lysates; Breast CA

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer
pH: 7.00
Preservative: 0.01% Thimerosal (merthiolate)
Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab97281 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>IHC-P</td>
<td></td>
<td>1/100 - 1/250.</td>
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</tbody>
</table>
Function

Required for normal development of photoreceptor synapses. Required for normal photoreceptor function and for long-term survival of photoreceptor cells. Interacts with cytoskeleton proteins and may play a role in protein transport in photoreceptor cells (By similarity). Binds lipids, especially phosphatidylinositol 3-phosphate, phosphatidylinositol 4-phosphate, phosphatidylinositol 5-phosphate, phosphatidylinositol 3,4-bisphosphate, phosphatidylinositol 4,5-bisphosphate, phosphatidylinositol 3,4,5-bisphosphate, phosphatidylserine and phosphatidic acid (in vitro). Contribute to stimulation of phagocytosis of apoptotic retinal pigment epithelium (RPE) cells and macrophages.

Tissue specificity

Retina-specific.

Involvement in disease

Defects in TULP1 are the cause of retinitis pigmentosa type 14 (RP14) [MIM:600132]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. RP14 inheritance is autosomal recessive.

Defects in TULP1 are the cause of Leber congenital amaurosis type 15 (LCA15) [MIM:613843]. LCA15 is a severe dystrophy of the retina, typically becoming evident in the first years of life. Visual function is usually poor and often accompanied by nystagmus, sluggish or near-absent pupillary responses, photophobia, high hyperopia and keratoconus.

Sequence similarities

Belongs to the TUB family.

Cellular localization


Images

All lanes: Anti-TULP1 antibody (ab97281) at 1/1000 dilution

Lane 1: 293T whole cell lysate
Lane 2: A431 whole cell lysate
Lane 3: H1299 whole cell lysate
Lane 4: HeLa S3 whole cell lysate
Lane 5: HepG2 whole cell lysate
Lane 6: Molt-4 whole cell lysate
Lane 7: Raji whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 61 kDa

7.5% SDS PAGE
Immunohistochemical analysis of TULP1 in paraffin-embedded Breast CA, using ab97281 at 1/100 dilution.

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

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