


Product datasheet

Anti-TULP1 antibody ab97281

1 References 2 Images

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.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 61 kDa.
IHC-P		1/100 - 1/250.

Target

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.

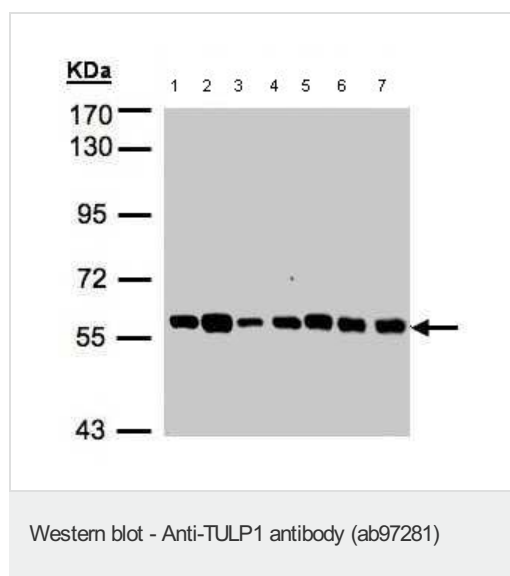
Sequence similarities

Belongs to the TUB family.

Cellular localization

Cytoplasm. Cell membrane. Secreted. Cell junction > synapse. Detected at synapses between photoreceptor cells and second-order neurons. Does not have a cleavable signal peptide and is secreted by an alternative pathway.

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

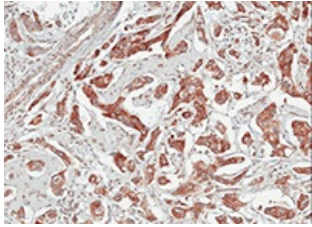
Lane 6 : Molt-4 whole cell lysate

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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TULP1 antibody (ab97281)

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