abcam

Product datasheet

Anti-Frizzled 8 antibody - Extracellular domain ab150500

1 Abreviews 1 References 2 Images

Overview

Product name	Anti-Frizzled 8 antibody - Extracellular domain
Description	Rabbit polyclonal to Frizzled 8 - Extracellular domain
Host species	Rabbit
Specificity	BLAST analysis of the peptide immunogen showed no homology with other Human proteins, except INTS6 (50%).
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Rabbit, Cow, Dog, Lizard, Opossum, Common marmoset, Elephant
Immunogen	Synthetic 16 amino acid peptide from the third extracellular domain of Human Frizzled 8.
Positive control	Human brain cerebellum purkinje neurons and Human fetal kidney tissue
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C.
Storage buffer	pH: 7.4 Preservative: 0.1% Sodium azide Constituent: 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab150500 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
IHC-P	★★★★☆ **(1)**	Use a concentration of 8 - 20 µg/ml.

Target

Function Receptor for Wnt proteins. Component of the Wnt-Fzd-LRP5-LRP6 complex that triggers beta-catenin signaling through inducing aggregation of receptor-ligand complexes into ribosome-sized signalosomes. The beta-catenin canonical signaling pathway leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. Coreceptor along with RYK of Wnt proteins, such as WNT1.

Tissue specificity Most abundant in fetal kidney, followed by brain and lung. In adult tissues, expressed in kidney, heart, pancreas and skeletal muscle.

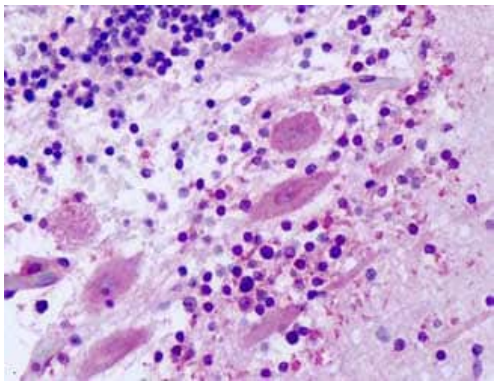
Sequence similarities Belongs to the G-protein coupled receptor Fz/Smo family.
Contains 1 FZ (frizzled) domain.

Domain The PDZ-binding motif mediates interaction with GOPC.
Lys-Thr-X-X-X-Trp motif interacts with the PDZ doman of Dvl (Disheveled) family members and is involved in the activation of the Wnt/beta-catenin signaling pathway.
The FZ domain is involved in binding with Wnt ligands.

Post-translational modifications Ubiquitinated by ZNRF3, leading to its degradation by the proteasome.

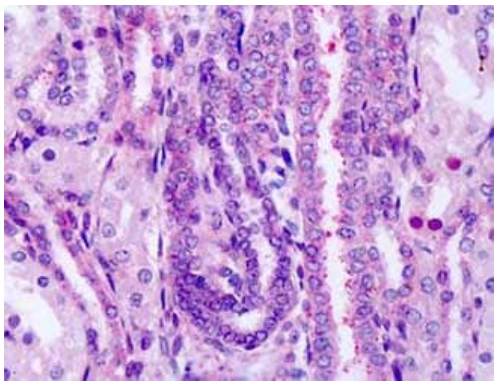
Cellular localization Membrane. Golgi apparatus. Cell membrane. Colocalizes with GOPC at the Golgi apparatus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Frizzled 8 antibody - Extracellular domain (ab150500)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human brain cerebellum purkinje neurons labelling Frizzled 8 with ab150500 at 20 µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Frizzled 8 antibody - Extracellular domain (ab150500)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human fetal kidney tissue labelling Frizzled 8 with ab150500 at 20 µg/ml.

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