Product datasheet

Anti-Frizzled 2 antibody - Extracellular domain
ab219101

2 Images

Overview

Product name: Anti-Frizzled 2 antibody - Extracellular domain
Description: Rabbit polyclonal to Frizzled 2 - Extracellular domain
Host species: Rabbit
Specificity: BLAST analysis of the peptide immunogen showed no homology with other human proteins, except FZD7 (67%), OR1A2 (56%), NFATC2 (50%).

Tested applications: Suitable for: IHC-P
Species reactivity: Reacts with: Human
Predicted to work with: Mouse, Rat, Sheep, Rabbit, Horse, Hamster, Cow, Dog, Pig

Immunogen: Synthetic peptide within Human Frizzled 2 (extracellular). The exact sequence is proprietary.
Synthetic 18 amino acid peptide from 3rd extracellular domain of human Frizzled 2.
Database link: Q14332


Properties

Form: Liquid
Storage buffer: Preservative: 0.09% Sodium azide
Constituent: 99% PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab219101 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which 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.

Tissue specificity
Widely expressed. In the adult, mainly found in heart, placenta, skeletal muscle, lung, kidney, pancreas, prostate, testis, ovary and colon. In the fetus, expressed in brain, lung and kidney. Low levels in fetal liver.

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

Domain
Lys-Thr-X-X-Trp motif is involved in the activation of the Wnt/beta-catenin signaling pathway. The FZ domain is involved in binding with Wnt ligands.

Cellular localization
Membrane.

Images
Immunohistochemical analysis of paraffin embedded formalin fixed human tonsil tissue labeling Frizzled 2 using ab219101 at 10 µg/mL.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Frizzled 2 antibody - Extracellular domain (ab219101)
Immunohistochemical analysis of paraffin embedded formalin fixed human kidney tissue labeling Frizzled 2 using ab219101 at 10 µg/mL.

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