

Frizzled 3 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2727a**Specification**

Frizzled 3 Antibody (internal region) - Product Information

Application	E
Primary Accession	O9NPG1
Other Accession	NP_059108.1 , 7976 , 14365 (mouse)
Predicted	Human, Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	76263

Frizzled 3 Antibody (internal region) - Additional Information**Gene ID** 7976**Other Names**

Frizzled-3, Fz-3, hFz3, FZD3

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Frizzled 3 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Frizzled 3 Antibody (internal region) - Protein Information**Name** FZD3**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. Activation by Wnt5A stimulates PKC activity via a G-protein-dependent mechanism. Involved in transduction and intercellular transmission of

polarity information during tissue morphogenesis and/or in differentiated tissues. Plays a role in controlling early axon growth and guidance processes necessary for the formation of a subset of central and peripheral major fiber tracts. Required for the development of major fiber tracts in the central nervous system, including: the anterior commissure, the corpus callosum, the thalamocortical, corticothalamic and nigrostriatal tracts, the corticospinal tract, the fasciculus retroflexus, the mammillothalamic tract, the medial lemniscus, and ascending fiber tracts from the spinal cord to the brain. In the peripheral nervous system, controls axon growth in distinct populations of cranial and spinal motor neurons, including the facial branchiomotor nerve, the hypoglossal nerve, the phrenic nerve, and motor nerves innervating dorsal limbs. Involved in the migration of cranial neural crest cells. May also be implicated in the transmission of sensory information from the trunk and limbs to the brain. Controls commissural sensory axons guidance after midline crossing along the anterior-posterior axis in the developing spinal cord in a Wnt-dependent signaling pathway. Together with FZD6, is involved in the neural tube closure and plays a role in the regulation of the establishment of planar cell polarity (PCP), particularly in the orientation of asymmetric bundles of stereocilia on the apical faces of a subset of auditory and vestibular sensory cells located in the inner ear. Promotes neurogenesis by maintaining sympathetic neuroblasts within the cell cycle in a beta- catenin-dependent manner (By similarity).

Cellular Location

Membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cell surface {ECO:0000250|UniProtKB:Q61086}. Apical cell membrane {ECO:0000250|UniProtKB:Q61086}; Multi-pass membrane protein Note=Colocalizes with FZD6 at the apical face of the cell (By similarity). {ECO:0000250|UniProtKB:Q61086}

Tissue Location

Widely expressed. Relatively high expression in the CNS, including regions of the limbic system, in kidney, pancreas, skeletal muscle, uterus and testis

Frizzled 3 Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Frizzled 3 Antibody (internal region) - Images**Frizzled 3 Antibody (internal region) - References**

Wnt Pathway-Related Gene Expression in Inflammatory Bowel Disease. You J, Nguyen AV, Albers CG, Lin F, Holcombe RF. Dig Dis Sci. 2007 Oct 16; [Epub ahead of print] PMID: 17939044