Anti-Frizzled-5 antibody

Description	Rabbit polyclonal to Frizzled-5.

Model	STJ93146
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human Frizzled-5
Immunogen Region	440-520 aa, C-terminal
Gene ID	7855
Gene Symbol	FZD5
Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000
Specificity	Frizzled-5 Polyclonal Antibody detects endogenous levels of Frizzled-5 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Frizzled-5 Fz-5 hFz5 FzE5
Molecular Weight	65 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:4043OMIM:601723
Alternative Names	Frizzled-5 Fz-5 hFz5 FzE5
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. Interacts specifically with Wnt5A to induce the beta-catenin pathway.
Sequence and Domain Family	The PDZ-binding motif mediates interaction with GOPC. Lys-Thr-X-X-X-Trp motif interacts with the PDZ domain 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.
Cellular Localization	Cell membrane Golgi apparatus membrane. Localized at the plasma membrane and also found at the Golgi.
Post-translational Modifications	Ubiquitinated by RNF43 and ZNRF3, leading to its degradation by the proteasome.