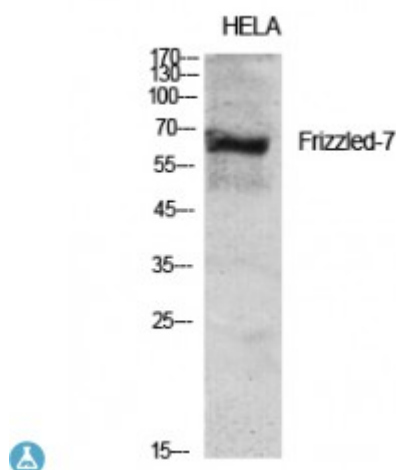


Anti-Frizzled-7 antibody



Description

Frizzled-7 is a protein encoded by the FZD7 gene which is approximately 63,6 kDa. Frizzled-7 is localised to the cell membrane. It is involved in the Wnt signalling pathway and pluripotency, CDK-mediated phosphorylation and removal of Cdc6 and mTOR signalling pathway. It is a 7-transmembrane domain protein that is a receptor for Wnt signalling proteins. It may also be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and in differentiated tissues. Frizzled-7 is expressed highly in adult skeletal muscle and foetal kidney. Mutations in the FZD7 gene may result in exudative vitreoretinopathy and hepatocellular carcinoma. STJ93151 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of Frizzled-7 protein.

Model	STJ93151
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IF, WB
Immunogen	Synthesized peptide derived from human Frizzled-7
Immunogen Region	20-100 aa, N-terminal
Gene ID	8324
Gene Symbol	FZD7
Dilution range	WB 1:500-1:2000IF 1:200-1:1000ELISA 1:20000
Specificity	Frizzled-7 Polyclonal Antibody detects endogenous levels of Frizzled-7

protein.

Tissue Specificity	High expression in adult skeletal muscle and fetal kidney, followed by fetal lung, adult heart, brain, and placenta. Specifically expressed in squamous cell esophageal carcinomas.
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-7 Fz-7 hFz7 FzE3
Molecular Weight	64 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:4045OMIM:603410
Alternative Names	Frizzled-7 Fz-7 hFz7 FzE3
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.
Sequence and Domain Family	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 Endosome membrane. Associated to the plasma membrane in the presence of FZD7 and phosphatidylinositol 4,5-bisphosphate (PIP2). Localized in recycling endosomes in other conditions.
Post-translational Modifications	Ubiquitinated by ZNRF3, leading to its degradation by the proteasome.