

Frizzled-5 Polyclonal Antibody

Catalog No: YT1781

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: Frizzled-5

Fields: >>mTOR signaling pathway;>>Wnt signaling pathway;>>Hippo signaling

pathway;>>Signaling pathways regulating pluripotency of stem

cells;>>Melanogenesis;>>Cushing syndrome;>>Alzheimer disease;>>Pathways

of neurodegeneration - multiple diseases;>>Human papillomavirus infection;>>Pathways in cancer;>>Proteoglycans in cancer;>>Basal cell carcinoma;>>Breast cancer;>>Hepatocellular carcinoma;>>Gastric cancer

Gene Name: FZD5

Protein Name: Frizzled-5

Q13467

Q9EQD0

Human Gene Id: 7855

Human Swiss Prot

No:

Mouse Gene Id: 14367

Mouse Swiss Prot

No:

Rat Gene Id: 317674

Rat Swiss Prot No: Q8CHL0

Immunogen: The antiserum was produced against synthesized peptide derived from human

FZD5. AA range:461-510

Specificity: Frizzled-5 Polyclonal Antibody detects endogenous levels of Frizzled-5 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.



Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not

yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 65kD

Cell Pathway: WNT;WNT-T CELLMelanogenesis;Pathways in cancer;Colorectal cancer;Basal

cell carcinoma;

Background: frizzled class receptor 5(FZD5) Homo sapiens Members of the

' frizzled' gene family encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The FZD5 protein is believed to be the

receptor for the Wnt5A ligand. [provided by RefSeq, Jul 2008],

Function: domain:Lys-Thr-X-X-Trp motif is involved in the activation of the Wnt/beta-

catenin signaling pathway..domain:The FZ domain is involved in binding with Wnt

ligands.,domain:The PDZ-binding motif mediates interaction with

GOPC.,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 intercellul

Subcellular Location:

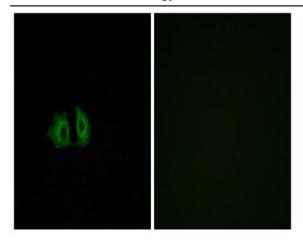
Cell membrane ; Multi-pass membrane protein . Golgi apparatus membrane ; Multi-pass membrane protein . Cell junction, synapse . Perikaryon . Cell

projection, dendrite. Cell projection, axon. Localized at the plasma membrane

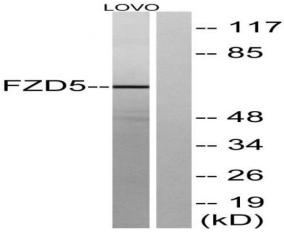
and also found at the Golgi. .

Expression: Oesophageal carcinoma, Retina,

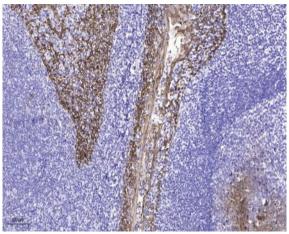
Products Images



Immunofluorescence analysis of A549 cells, using FZD5 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from LOVO cells, using FZD5 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).