

KD-Validated Anti-Frizzled class receptor 9 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1034**Specification****KD-Validated Anti-Frizzled class receptor 9 Rabbit Monoclonal Antibody - Product Information**

Application	WB, ICC
Primary Accession	O00144
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 64 kDa, observed, 50 kDa kDa
Gene Name	FZD9
Aliases	FZD9; Frizzled Class Receptor 9; FZD3; CD349; Frizzled 9, Seven Transmembrane Spanning Receptor; Frizzled Family Receptor 9; Frizzled-9; Fz-9; FzE6; HFz9; Frizzled (Drosophila) Homolog 9; Frizzled Homolog 9 (Drosophila); Frizzled Homolog 9; CD349 Antigen
Immunogen	A synthesized peptide derived from human Frizzled 9 / CD349

KD-Validated Anti-Frizzled class receptor 9 Rabbit Monoclonal Antibody - Additional Information

Gene ID	8326
Other Names	
Frizzled-9, Fz-9, hFz9, FzE6, CD349, FZD9, FZD3	

KD-Validated Anti-Frizzled class receptor 9 Rabbit Monoclonal Antibody - Protein Information**Name** FZD9**Synonyms** FZD3**Function**

Receptor for WNT2 that is 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 (By similarity). Plays a role in neuromuscular junction (NMJ) assembly by negatively regulating the clustering of acetylcholine receptors (AChR) through the beta-catenin canonical signaling pathway (By similarity). May play a role in neural progenitor cells (NPCs) viability through the beta-catenin canonical signaling pathway by negatively regulating cell cycle arrest leading to inhibition of neuron apoptotic process (PubMed: [27509850](http://www.uniprot.org/citations/27509850)). During hippocampal development, regulates neuroblast proliferation and apoptotic cell death.

Controls bone formation through non canonical Wnt signaling mediated via ISG15. Positively regulates bone regeneration through non canonical Wnt signaling (By similarity).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q9R216}; Multi-pass membrane protein.
Note=Relocalizes DVL1 to the cell membrane leading to phosphorylation of DVL1 and AXIN1 relocalization to the cell membrane. {ECO:0000250|UniProtKB:Q8K4C8}

Tissue Location

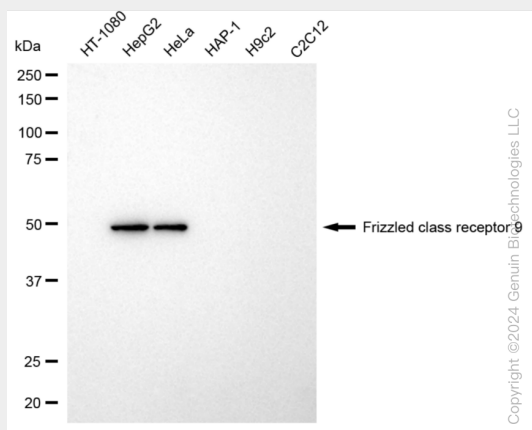
Expressed predominantly in adult and fetal brain, testis, eye, skeletal muscle and kidney. Moderately expressed in pancreas, thyroid, adrenal cortex, small intestine and stomach Detected in fetal liver and kidney. Expressed in neural progenitor cells (PubMed:27509850).

KD-Validated Anti-Frizzled class receptor 9 Rabbit Monoclonal Antibody - Protocols

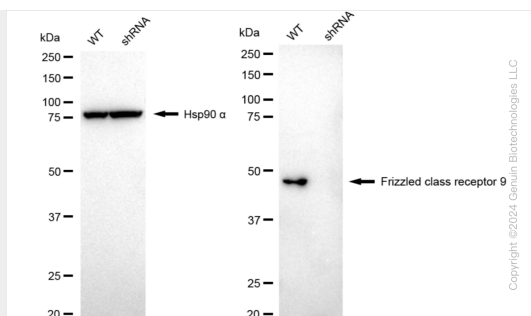
Provided below are standard protocols that you may find useful for product applications.

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

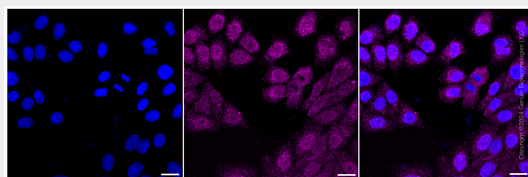
KD-Validated Anti-Frizzled class receptor 9 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-frizzled class receptor 9 antibody (Cat#AGI1034). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-frizzled class receptor 9 antibody (Cat#AGI1034, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-frizzled class receptor 9 antibody (Cat#AGI1034). Frizzled class receptor 9 expression in wild type (WT) and frizzled class receptor 9 (FZD9) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-frizzled class receptor 9 antibody (Cat#AGI1034, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Immunocytochemical staining of HepG2 cells with anti-frizzled class receptor 9 antibody (Cat#AGI1034, 1:1,000). Nuclei were stained blue with DAPI; Frizzled class receptor 9 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.