

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

Rabbit monoclonal antibody

Catalog # AGI1034

Product Information

Application	WB, ICC
Primary Accession	O00144
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB5995
Calculated MW	64466
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

Additional Information

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

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). 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).

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