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FZD5 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1760a

Product Information

Application	WB, FC, E
Primary Accession	Q13467
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2D12
Isotype	IgG1
Calculated MW	64507
Description	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.
Immunogen	Purified recombinant fragment of human FZD5 (AA:151-217) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	7855
Other Names	Frizzled-5, Fz-5, hFz5, FzE5, FZD5, C2orf31
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FZD5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FZD5
Synonyms	C2orf31
Function	Receptor for Wnt proteins (PubMed: 10097073, PubMed:20530549, PubMed:26908622, PubMed:9054360). Functions in the canonical Wnt/beta-catenin signaling pathway. In vitro activates WNT2, WNT10B, WNT5A, but not

WNT2B or WNT4 signaling (By similarity). In neurons, activation by WNT7A promotes formation of synapses (PubMed:20530549). May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues (Probable). Plays a role in yolk sac angiogenesis and in placental vascularization (By similarity). Plays a role in ocular development (PubMed:26908622).

Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q8CHL0}. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q9EQD0}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9EQD0}. Synapse {ECO:0000250|UniProtKB:Q8CHL0}. Perikaryon {ECO:0000250|UniProtKB:Q8CHL0}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q8CHL0}. Cell projection, axon {ECO:0000250|UniProtKB:Q8CHL0}. Note=Localized at the plasma membrane and also found at the Golgi apparatus. {ECO:0000250|UniProtKB:Q9EQD0}

References

1.J Biol Chem. 2009 Sep 25;284(39):26716-24.2.Int J Oncol. 2007 Mar;30(3):751-5.

Images

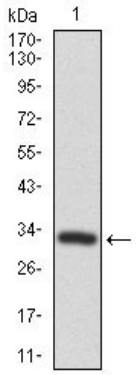


Figure 1: Western blot analysis using FZD5 mAb against human FZD5 recombinant protein. (Expected MW is 32.5 kDa)

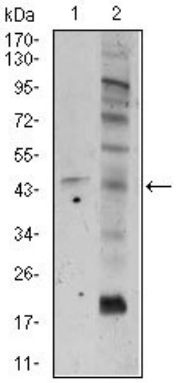


Figure 2: Western blot analysis using FZD5 mouse mAb against A549 (1), and PC-3 (2) cell lysate.

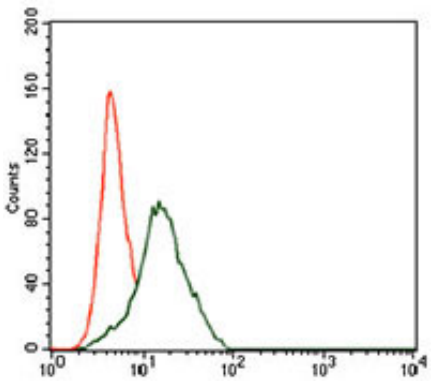


Figure 3: Flow cytometric analysis of HepG2 cells using FZD5 mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.