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FZD10 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21301a

Product Information

Application	WB, E
Primary Accession	Q9ULW2
Reactivity	Human, Mouse
Predicted	Rat, Bovine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52084
Calculated MW	65336

Additional Information

Gene ID	11211
Other Names	Frizzled-10, Fz-10, hFz10, FzE7, CD350, FZD10
Target/Specificity	This FZD10 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 177-212 amino acids from the N-terminal region of human FZD10.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FZD10 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FZD10
Function	Receptor for Wnt proteins. Functions in the canonical Wnt/beta-catenin signaling pathway (By similarity). The canonical Wnt/beta-catenin signaling pathway 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 (Probable).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Highest levels in the placenta and fetal kidney, followed by fetal lung and brain. In adult brain, abundantly expressed in the cerebellum, followed by cerebral cortex, medulla and spinal cord; very low levels in total brain, frontal lobe, temporal lobe and putamen. Weak expression detected in adult brain, heart, lung, skeletal muscle, pancreas, spleen and prostate.

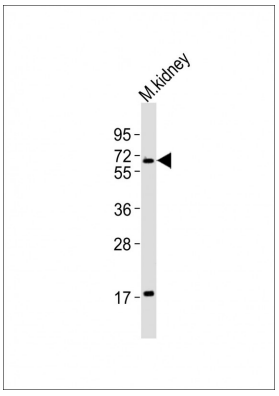
Background

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.

References

Koike J.,et al.Biochem. Biophys. Res. Commun. 262:39-43(1999).
Tanaka S.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:10164-10169(1998).
Kwon H.S.,et al.Mol. Cell. Biol. 29:2139-2154(2009).

Images



Anti-FZD10 Antibody (N-term)at 1:2000 dilution + mouse kidney lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 65 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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