Product Name: Frizzled-10 Rabbit Polyclonal Antibody
Catalog #: APRab11140

Summary

Production Name	Frizzled-10 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Monkey

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	FZD10
Alternative Names	FZD10; Frizzled-10; Fz-10; hFz10; FzE7; CD antigen CD350
Gene ID	11211.0
SwissProt ID	Q9ULW2.The antiserum was produced against synthesized peptide derived from human FZD10. AA range:135-184

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:5000
Molecular Weight	60kD

Background

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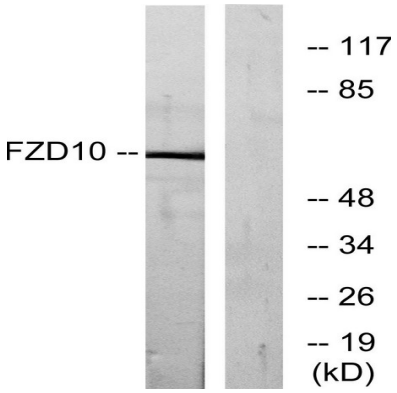
This gene is a member of the frizzled gene family. Members of this family encode 7-transmembrane domain proteins that are receptors for the Wingless type MMTV integration site family of signaling proteins. Most frizzled receptors are coupled to the beta-catenin canonical signaling pathway. Using array analysis, expression of this intronless gene is significantly up-regulated in two cases of primary colon cancer. [provided by RefSeq, Jul 2008],domain:Lys-Thr-X-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.,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 intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues.,similarity:Belongs to the G-protein coupled receptor Fz/Smo family.,similarity:Contains 1 FZ (frizzled) domain.,tissue specificity: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.,

Research Area

WNT;WNT-T CELLMelanogenesis;Pathways in cancer;Colorectal cancer;Basal cell carcinoma;

Image Data



Western blot analysis of lysates from COS7 cells, using FZD10 Antibody. The lane on the right is blocked with the synthesized peptide.

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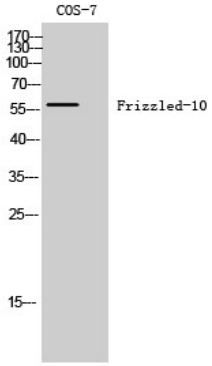

Western Blot analysis of COS-7 cells using Frizzled-10 Polyclonal Antibody

Note

For research use only.