



# Frizzled-9 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-13263
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Monkey
<b>Applications</b>	WB;IF;ELISA
<b>Gene Name</b>	FZD9
<b>Protein Name</b>	Frizzled-9
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human FZD9. AA range:542-591
<b>Specificity</b>	Frizzled-9 Polyclonal Antibody detects endogenous levels of Frizzled-9 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	FZD9; FZD3; Frizzled-9; Fz-9; hFz9; FzE6; CD antigen CD349
<b>Observed Band</b>	64kD
<b>Cell Pathway</b>	Cell membrane ; Multi-pass membrane protein . Relocalizes DVL1 to the cell membrane leading to phosphorylation of DVL1 and AXIN1 relocalization to the cell membrane. .
<b>Tissue Specificity</b>	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).
<b>Function</b>	caution:Has been first described as FZD3 in literature.,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 t

#### Background

frizzled class receptor 9(FZD9) Homo sapiens Members of the 'frizzled' gene family encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The FZD9 gene is located within the Williams syndrome common deletion region of chromosome 7, and heterozygous deletion of the FZD9 gene may contribute to the Williams syndrome phenotype. FZD9 is expressed predominantly in brain, testis, eye, skeletal muscle, and kidney. [provided by RefSeq, Jul 2008],

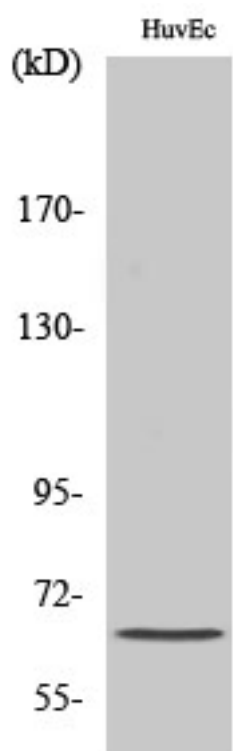
#### matters needing attention

Avoid repeated freezing and thawing!

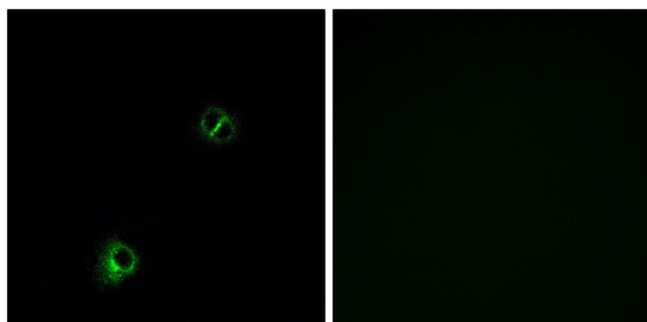
#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

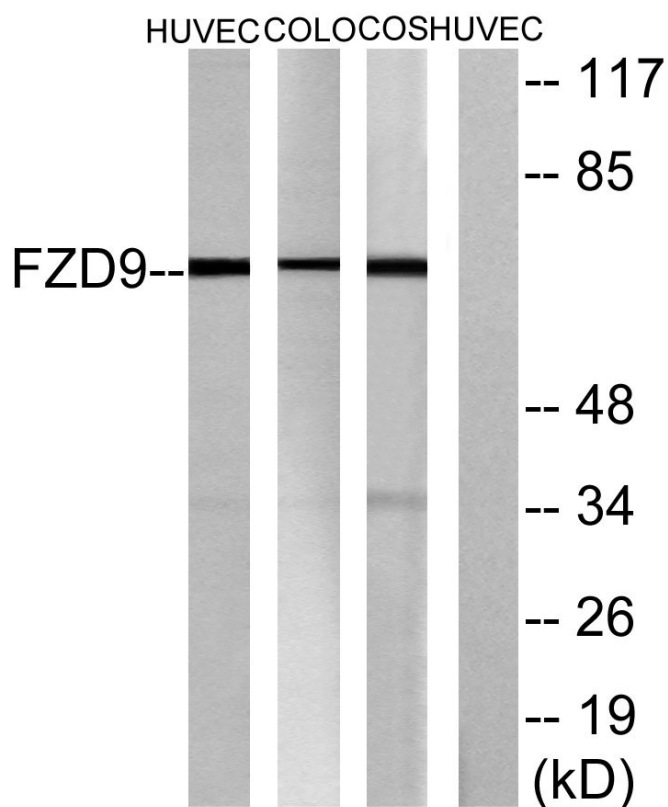
### Products Images



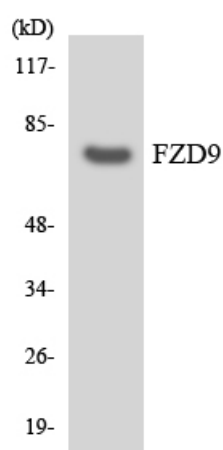
Western Blot analysis of various cells using Frizzled-9 Polyclonal Antibody



Immunofluorescence analysis of A549 cells, using FZD9 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HUVEC, COLO, and COS cells, using FZD9 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from Jurkat cells using FZD9 antibody.