

Rabbit anti-Human, Mouse FZD6 Polyclonal Antibody | anti-FZD6 antibody

FZD6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325546	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

FZD6; Polyclonal Antibody; FZD6 Antibody; Frizzled 6 seven transmembrane spanning receptor; Frizzled drosophila homolog of 6; Frizzled family receptor 6; Frizzled homolog 6 (Drosophila); Frizzled homolog 6; Frizzled-6; Frizzled6; Fz 6; Fz-6; Fz6; FZD 6; Fzd6; FZD6_HUMAN; Hfz 6; hFz6; NDNC10; anti-FZD6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	FZD6 antibody detects endogenous levels of total FZD6
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	706
Applicable Applications for anti-FZD6 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane. Cell Membrane. Cell Surface. Apical Cell Membrane. Cytoplasmic Vesicle Membrane. Colocalizes with FZD3 at the apical face of cells (By similarity).
Tissue Specificity	Detected in adult heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, thymus, prostate, testis, ovary, small intestine and colon. In the fetus, expressed in brain, lung, liver and kidney.
Predicted Cross Reactivity	Rabbit
Similarity	Rabbit (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from LOVO cells using FZD6 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA325546 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA325546 staining 293T by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-FZD6 antibody

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. Together with FZD3, is involved in the neural tube closure and plays a role in the regulation of the establishment of planar cell polarity (PCP), particularly in the orientation of asymmetric bundles of stereocilia on the apical faces of a subset of auditory and vestibular sensory cells located in the inner ear (By similarity).

Post-translational Modifications: Ubiquitinated by ZNRF3, leading to its degradation by the proteasome.

Similarity: Lys-Thr-X-X-X-Trp motif interacts with the PDZ domain of Dvl (Disheveled) family members and is involved in the activation of the Wnt/beta-catenin signaling pathway. The FZ domain is involved in binding with Wnt ligands. Belongs to the G-protein coupled receptor Fz/Smo family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	257470999
NCBI GeneID	8323
NCBI Accession #	NP_001158087.1
NCBI GenBank Nucleotide #	NM_001164615.1
UniProt Accession #	O60353; Q6N0A5; Q6P9C3; Q8WXR9; B4DRN0
Molecular Weight	Observed: 79 kD Predicted: 80 kDa
NCBI Official Full Name	frizzled-6 isoform a
NCBI Official Synonym Full Names	frizzled class receptor 6
NCBI Official Symbol	FZD6
NCBI Official Synonym Symbols	FZ6; FZ-6; HFZ6; NDNC10
NCBI Protein Information	frizzled-6

UniProt Protein Name	Frizzled-6
UniProt Gene Name	FZD6
UniProt Synonym Gene Names	Fz-6; hFz6

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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