Rabbit anti-Human, Mouse FZD7 Polyclonal Antibody | anti-FZD7 antibody

FZD7 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327579	**Rabbit**	**Human, Mouse**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

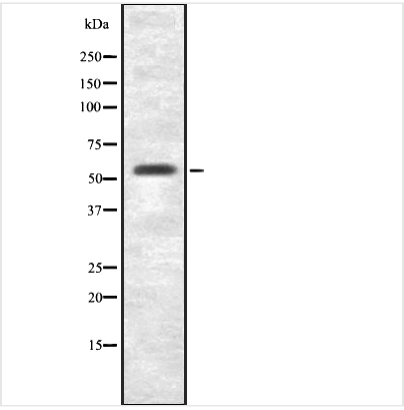
PRODUCT SYNONYMS

FZD7; Polyclonal Antibody; FZD7 Antibody; Frizzled 7; seven transmembrane spanning receptor; frizzled class receptor 7; Frizzled drosophila homolog of 7; Frizzled family receptor 7; Frizzled homolog 7; Frizzled-7; Frizzled7; Fz 7; Fz-7; Fz7; FZD 7; FZD7_HUMAN; FzE 3; FzE3; hFz 7; hFz7; Homolog of Drosophila Frizzled 7; OTTHUMP00000163742; anti-FZD7 antibody

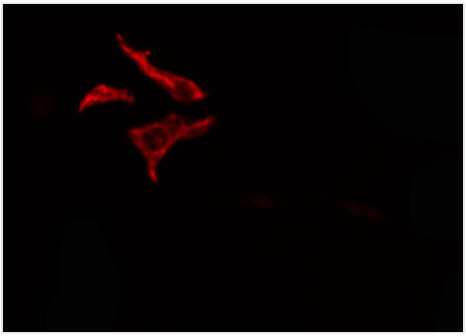
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	FZD7 antibody detects endogenous levels of total FZD7
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	574
Applicable Applications for anti-FZD7 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FZD7
Subcellular Location	Membrane.
Tissue Specificity	High expression in adult skeletal muscle and fetal kidney, followed by fetal lung, adult heart, brain, and placenta. Specifically expressed in squamous cell esophageal carcinomas.
Predicted Cross Reactivity	**Pig, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (82%), Xenopus (82%)
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 FZD7 using RAW264.7 whole cell lysates



IF (Immunofluorescence)
AAA327579 staining HT29 cells 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) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-FZD7 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. Subunit Structure: Interacts with MAGI3 and DVL1 (By similarity). Interacts with MYOC. Binds to SDCBP; this interaction is increased by inositol trisphosphate (IP3) (PubMed:27386966). 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 #	4503833
NCBI GeneID	8324
NCBI Accession #	NP_003498.1
NCBI GenBank Nucleotide #	NM_003507.1
UniProt Accession #	O75084; O94816; Q53S59; Q96B74
Molecular Weight	Observed: 63 kDa Predicted: 64 kDa
NCBI Official Full Name	frizzled-7
NCBI Official Synonym Full Names	frizzled class receptor 7
NCBI Official Symbol	FZD7
NCBI Official Synonym Symbols	FzE3
NCBI Protein Information	frizzled-7
UniProt Protein Name	Frizzled-7
UniProt Gene Name	**FZD7**

UniProt Synonym Gene Names	Fz-7; hFz7

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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