ARG59221
anti-FZD1 / Frizzled 1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes FZD1 / Frizzled 1
Tested Reactivity	Hu
Predict Reactivity	Hm
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	FZD1 / Frizzled 1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 369-400 of Human FZD1 / Frizzled 1. (YIAGFLLEDRVVCNDKFAEDGARTVAQGTKKE)
Conjugation	Un-conjugated
Alternate Names	Frizzled-1; Fz-1; hFz1; FzE1

Application Instructions

Application table

Application	Dilution
IHC-P	0.5 - 2 µg/ml
WB	0.1 - 0.6 µg/ml

Application Note: IHC-P: Antigen Retrieval: By heat mediation.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

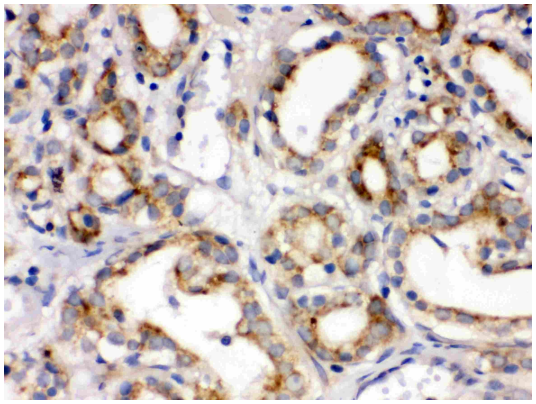
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

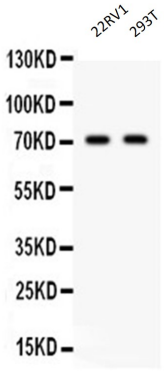
Gene Symbol	FZD1
Gene Full Name	frizzled class receptor 1
Background	Members of the 'frizzled' gene family encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The FZD1 protein contains a signal peptide, a cysteine-rich domain in the N-terminal extracellular region, 7 transmembrane domains, and a C-terminal PDZ domain-binding motif. The FZD1 transcript is expressed in various tissues. [provided by RefSeq, Jul 2008]
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. Activated by Wnt3A, Wnt3, Wnt1 and to a lesser extent Wnt2, but not by Wnt4, Wnt5A, Wnt5B, Wnt6, Wnt7A or Wnt7B. [UniProt]
Calculated Mw	71 kDa
PTM	Ubiquitinated by ZNRF3, leading to its degradation by the proteasome. [UniProt]
Cellular Localization	Cell membrane; Multi-pass membrane protein. [UniProt]

Images



ARG59221 anti-FZD1 / Frizzled 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human prostatic cancer stained with ARG59221 anti-FZD1 / Frizzled 1 antibody.



ARG59221 anti-FZD1 / Frizzled 1 antibody WB image

Western blot: 40 µg of 22RV1 and 293T whole cell lysates stained with ARG59221 anti-FZD1 / Frizzled 1 antibody at 0.5 µg/ml dilution.