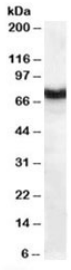
Frizzled 8 Antibody / Wnt Signaling Receptor Antibody (R36118)

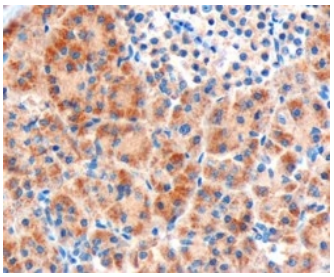
Catalog No.	Formulation	Size
R36118-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Cow, Dog, Mouse, Rat
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	8325
Applications	Western blot: 1-3ug/ml Immunohistochemistry (FFPE): 3-5ug/ml ELISA (peptide) LOD: 1:32000
Limitations	This Frizzled 8 Antibody / Wnt Signaling Receptor Antibody is available for research use only.



Frizzled 8 Antibody / Wnt Signaling Receptor Antibody Human Pancreas WB. Western blot analysis of human pancreas lysate using Frizzled 8 Antibody / Wnt Signaling Receptor Antibody at 1 ug/ml. A distinct immunoreactive band is detected at approximately 73 kDa, consistent with the predicted molecular weight of Frizzled 8, supporting specific detection of this Wnt signaling receptor in human pancreatic tissue.



Frizzled 8 Antibody / Wnt Signaling Receptor Antibody Human Pancreas IHC. Immunohistochemical staining of FFPE human pancreas tissue using Frizzled 8 Antibody / Wnt Signaling Receptor Antibody at 3 ug/ml. Frizzled 8 expression is observed predominantly within the cytoplasm and cell membrane of pancreatic cells, consistent with its role as a Wnt signaling receptor regulating cellular differentiation, tissue homeostasis, and signal transduction. Heat-induced epitope retrieval was performed by microwaving tissue sections in pH 9 Tris/EDTA buffer prior to HRP-based detection.

Description

Frizzled 8 Antibody / Wnt Signaling Receptor Antibody recognizes Frizzled 8 (FZD8), a seven-transmembrane receptor that functions as a key mediator of canonical and non-canonical Wnt signaling pathways. As a member of the Frizzled receptor family, FZD8 binds extracellular Wnt ligands and transduces signals that regulate cell proliferation, differentiation, polarity, migration, and tissue patterning. Through activation of beta-catenin-dependent and beta-catenin-independent pathways, FZD8 plays an essential role during embryonic development while continuing to regulate tissue homeostasis and regeneration in adult organisms. Frizzled 8 Antibody / Wnt Signaling Receptor Antibody is widely used to investigate developmental signaling, stem cell biology, and receptor-mediated signal transduction.

FZD8 is expressed in multiple tissues where it participates in neural development, skeletal formation, cardiovascular development, organogenesis, and maintenance of stem cell populations. Ligand binding promotes assembly of receptor complexes that activate intracellular signaling cascades controlling gene expression, cytoskeletal organization, and cell fate decisions. Because Wnt signaling is highly conserved across vertebrates, FZD8 has become an important target for studies examining embryonic patterning, tissue repair, regeneration, and developmental disorders.

Dysregulation of FZD8-mediated signaling has been implicated in numerous diseases, including colorectal cancer, breast cancer, hepatocellular carcinoma, gastric cancer, and other malignancies in which aberrant Wnt pathway activation promotes uncontrolled proliferation, epithelial-to-mesenchymal transition, invasion, and therapeutic resistance. FZD8 has also been investigated for its roles in fibrosis, bone metabolism, and regenerative medicine, making it an important biomarker and potential therapeutic target for modulation of Wnt signaling.

NSJ Bioreagents' Frizzled 8 Antibody / Wnt Signaling Receptor Antibody supports investigations into Wnt signaling, embryonic development, tissue regeneration, stem cell biology, cancer progression, and receptor-mediated signaling pathways. Detection of endogenous FZD8 expression enables researchers to examine one of the principal receptors controlling vertebrate developmental and homeostatic signaling networks.

Explore additional antibodies involved in stem cell maintenance, Wnt signaling, and cellular differentiation on our Stem Cell Antibodies page.

Application Notes

Optimal dilution of the Frizzled 8 Antibody / Wnt Signaling Receptor Antibody should be determined by the researcher.

Immunogen

Amino acids SYPKQMPLSQV were used as the immunogen for this Frizzled 8 antibody.

Storage

Aliquot and store the Frizzled 8 antibody at -20oC.

Alternate Names

Frizzled 8 antibody, FZD8 antibody, Frizzled-8 receptor antibody, Fz8 antibody, Wnt Receptor antibody, Frizzled Family Receptor antibody

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