bs-13217R **[Primary Antibody]**

FZD4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 8322 **SWISS:** Q9ULV1

Target: FZD4

Immunogen: KLH conjugated synthetic peptide derived from human Frizzled 4/CD344: 151-250/537. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Frizzled-4 is a 537 amino acid protein encoded by the human gene FZD4. Frizzled-4 acts as a receptor for Wnt proteins. Most 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. Frizzled-4 may be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. Frizzled-4 also plays a critical role in retinal angiogenesis. Frizzled-4 is virtually ubiquitously expressed with greatest amounts found in adult heart, skeletal muscle, ovary, and fetal kidney.

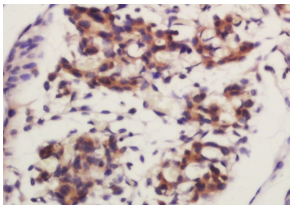
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse (predicted: Human, Rat, Pig, Cow, Chicken, Dog, Horse)

Predicted MW.: 56 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Frizzled 4 Polyclonal Antibody, Unconjugated(bs-13217R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=4.566]** Feng Ziqiang. et al. In Ovo Injection of CHIR-99021 Promotes Feather Follicle Development via Modulating

the Wnt Signaling Pathway and Transcriptome in Goose Embryos (Anser cygnoides). FRONT PHYSIOL. 2022 May;0:811 WB ;Bird. 35669574

- **[IF=2.945]** Zhang, Zilong. et al. Circ_FBLN1 promotes the proliferation and osteogenic differentiation of human bone marrow-derived mesenchymal stem cells by regulating let-7i-5p/FZD4 axis and Wnt/β-catenin pathway. 2021 Aug 23 WB ;Human. 34424449
- **[IF=3.32]** Yang Bo. et al. CircRNA has_circ_0017109 promotes lung tumor progression via activation of Wnt/β-catenin signaling due to modulating miR-671-5p/FZD4 axis. BMC PULM MED. 2022 Dec;22(1):1-13 WB ;Human, Mouse. 36434577
- **[IF=1.63]** Ziqiang Feng. et al. Breed-specific expression mode of the Wnt signalling pathway is involved in feather follicle morphogenesis between Anser cygnoide and Anser anser. J APPL ANIM RES. 2022;50(1):299-306 WB ;Fish. 10.1080/09712119.2022.2066676