bs-5125R **[Primary Antibody]**

Frizzled 7 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 8324 **SWISS:** O75084

Target: Frizzled 7

Immunogen: KLH conjugated synthetic peptide derived from human Frizzled 7: 501-574/574. < Cytoplasmic >

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: Members of the 'frizzled' gene family encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The Frizzled 7 protein contains an N-terminal signal sequence, 10 cysteine residues typical of the cysteine-rich extracellular domain of Frizzled family members, 7 putative transmembrane domains, and an intracellular C-terminal tail with a PDZ domain-binding motif. Frizzled 7 gene expression may downregulate APC function and enhance beta-catenin-mediated signals in poorly differentiated human esophageal carcinomas. Frizzled 7 expression has been reported in brain, gastrointestinal tract, heart, fetal kidney, fetal lung, placenta, skeletal muscle, and various cancers. ESTs have been isolated from a wide variety of normal and cancer libraries.

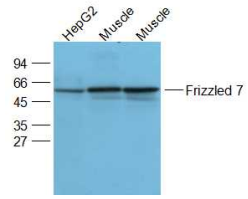
Applications: **WB** (1:500-2000)
Flow-Cyt (3ug/Test)

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

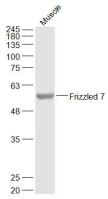
Predicted MW.: 60 kDa

Subcellular Location: Cell membrane

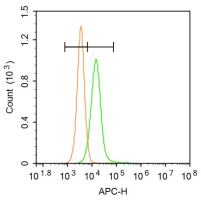
VALIDATION IMAGES



Sample: HepG2(Human) Cell Lysate at 30 ug Muscle (Mouse) Lysate at 40 ug Muscle (Rat) Lysate at 40 ug Primary: Anti-Frizzled 7 (bs-5125R) at 1/2000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD Observed band size: 60 kD



Sample: Muscle (Mouse) Lysate at 40 ug Primary: Anti-Frizzled 7 (bs-5125R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD Observed band size: 60 kD



Blank control: A431. Primary Antibody (green line): Rabbit Anti-Frizzled 7 antibody (bs-5125R) Dilution: 3µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody: Goat anti-rabbit IgG-AF647 Dilution: 3µg /test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=13.3]** Haozhan Qu. et al.Fermented Feed Promotes Gut Development by Enhancing Intestinal Stem Cell Expansion via Activation of the Wnt/_x005F eta-Catenin Signaling Pathway.CHEMICAL ENGINEERING JOURNAL.2025 Jan IHC ;piglets .

- **[IF=9.207]** Qin, Ying-chao. et al. L-glutamate requires β-catenin signalling through Frizzled7 to stimulate porcine intestinal stem cell expansion. CELL MOL LIFE SCI. 2022 Oct;79(10):1-13 IHC,WB ;Pig. 36121491
- **[IF=6.208]** Anqi Yang. et al. FZD7, Regulated by Non-CpG Methylation, Plays an Important Role in Immature Porcine Sertoli Cell Proliferation. INT J MOL SCI. 2023 Jan;24(7):6179 IF ;Pig. 37047150
- **[IF=6.1]** Jia-yi Zhou. et al. Mulberry Leaf-Derived Morin Activates β-Catenin by Binding to Frizzled7 to Promote Intestinal Stem Cell Expansion upon Heat-Stable Enterotoxin b Injury. J AGR FOOD CHEM. 2024;XXXX(XXX):XXX-XXX IHC,WB ;Mouse. 38651967
- **[IF=5.279]** Cheng-long Jin. et al. Lysine Interacts with Frizzled7 to Activate β-Catenin in Satellite Cell-Participated Skeletal Muscle Growth. J Agr Food Chem. 2022;70(12):3745–3756 WB ;Piglets. 35312309