bs-0996R **[Primary Antibody]**

EphB2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2048 **SWISS:** P29323

Target: EphB2

Immunogen: KLH conjugated synthetic peptide derived from human EPHB2: 551-650/1055.

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: This gene encodes a member of the Eph receptor family of receptor tyrosine kinase transmembrane glycoproteins. These receptors are composed of an N-terminal glycosylated ligand-binding domain, a transmembrane region and an intracellular kinase domain. They bind ligands called ephrins and are involved in diverse cellular processes including motility, division, and differentiation. A distinguishing characteristic of Eph-ephrin signaling is that both receptors and ligands are competent to transduce a signaling cascade, resulting in bidirectional signaling. This protein belongs to a subgroup of the Eph receptors called EphB. Proteins of this subgroup are distinguished from other members of the family by sequence homology and preferential binding affinity for membrane-bound ephrin-B ligands. Allelic variants are associated with prostate and brain cancer susceptibility. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2015]

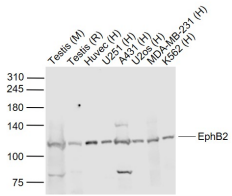
Applications: **WB** (1:500-2000)
Flow-Cyt (3ug/Test)

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

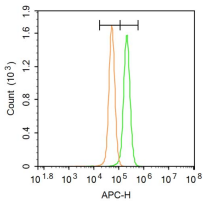
Predicted MW.: 108 kDa

Subcellular Location: Cell membrane

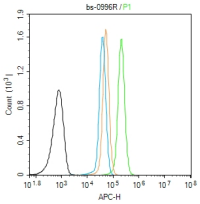
VALIDATION IMAGES



Sample: Lane 1: Testis (Mouse) Lysate at 40 ug Lane 2: Testis (Rat) Lysate at 40 ug Lane 3: Huvec (Human) Cell Lysate at 30 ug Lane 4: U251 (Human) Cell Lysate at 30 ug Lane 5: A431 (Human) Cell Lysate at 30 ug Lane 6: U2os (Human) Cell Lysate at 30 ug Lane 7: MDA-MB-231 (Human) Cell Lysate at 30 ug Lane 8: K562 (Human) Cell Lysate at 30 ug Primary: Anti-EphB2 (bs-0996R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 125 kD Observed band size: 120 kD



Blank control: A431. Primary Antibody (green line): Rabbit Anti-EphB2 antibody (bs-0996R) 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 fixed with 4% PFA (10min at room temperature)and then permeabilized with 20% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The



Blank control (Black line): A431 (Black). Primary Antibody (green line): Rabbit Anti-EphB2 antibody (bs-0996R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature.Cells stained with Primary Antibody

secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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SELECTED CITATIONS

- **[IF=11.47]** Choi, Won Hoon, et al. "Open-gate mutants of the mammalian proteasome show enhanced ubiquitin-conjugate degradation." Nature Communications 7 (2016). WB ;="Human". 26957043
- **[IF=2.63]** Yang Xuesong. et al. Intervention Mechanism of Hunag-Lian Jie-Du Decoction on Canonical Wnt/β-Catenin Signaling Pathway in Psoriasis Mouse Model. EVID-BASED COMPL ALT. 2022;2022:3193572 WB ;Mouse. 35463060
- **[IF=2.303]** Junjun Ling. et al. EPHB2 as a recurrence-related gene and a prognostic indicator in nasopharyngeal carcinoma: A bioinformatics screening and immunohistochemistry verification. HISTOL HISTOPATHOL. 2022 Apr 20;18459 IHC ;Human. 35441696