bs-0485R **[Primary Antibody]**

EphA2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1969 **SWISS:** P29317

Target: EphA2

Immunogen: KLH conjugated synthetic peptide derived from human EphA2: 901-976/976. < 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: This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. This gene encodes a protein that binds ephrin-A ligands. Mutations in this gene are the cause of certain genetically-related cataract disorders.[provided by RefSeq, May 2010].

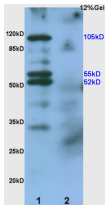
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

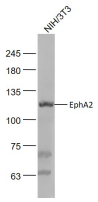
Predicted MW.: 105 kDa

Subcellular Location: Cell membrane

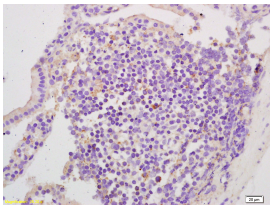
VALIDATION IMAGES



Sample: Human colon carcinoma lysates Lysate at 30 ug Intestine (Mouse) Lysate at 30 ug Primary: Anti- EphA2/Eph receptor A2 (bs-0485R) at 1/200 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/3000 dilution Predicted band size : 105kD Observed band size : 105kD, 52/55kD



Sample: NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti-EphA2 (bs-0485R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 105 kD Observed band size: 115 kD



Tissue/cell: mouse intestine 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-EphA2/Eph receptor A2 Polyclonal Antibody, Unconjugated(bs-0485R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=6.212]** Bin Qu. et al. Evaluation of a novel EphA2 targeting peptide for triple negative breast cancer based on radionuclide molecular imaging. ARAB J CHEM. 2022 Aug;:104211 IHC ;Mouse. 10.1016/j.arabjc.2022.104211
- **[IF=3.73]** "Wu, Lun, et al. ""HIF-1α and HIF-2α: Siblings in Promoting Angiogenesis of Residual Hepatocellular Carcinoma after High-Intensity Focused Ultrasound Ablation."" PLOS ONE 9.2 (2014): e88913. " IHC ;="Mouse".

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- **[IF=1.28]** Wu et al. Overexpression and correlation of HIF-2α, VEGFA and EphA2 in residual hepatocellular carcinoma following high-intensity focused ultrasound treatment: Implications for tumor recurrence and progression. (2017) Exp.Ther.Me. 13:3529-3534 IHC,WB ;Mouse. 28587437