

Rabbit Anti-EphB2 antibody

SL0247R

Product Name	EphB2
Chinese Name	酪氨酸蛋白激酶受体 B2 抗体
Alias	PHB2_HUMAN; Ephrin type-B receptor 2; EC:2.7.10.1; Developmentally-regulated Eph-related tyrosine kinase; ELK-related tyrosine kinase; EPH tyrosine kinase 3; EPH-like kinase 5 (EK5; hEK5); Renal carcinoma antigen NY-REN-47; Tyrosine-protein kinase TYRO5; Tyrosine-protein kinase receptor EPH-3; EphB2/CTF1; EphB2/CTF2; DRT; EPHT3; EPTH3; TYRO5; CAPB; PCBC; BDPLT22;
Research Area	Tumour immunology Growth factors and hormones
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat,Mouse,Human(predicted:Dog,Chicken) WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	114kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human EphB2: 101-200/1055 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Rat,Mouse,Human(predicted:Dog,Chicken)1M TBS(pH7.4) with 1% BSA, Rat,Mouse,Human(predicted:Dog,Chicken)3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

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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]

Subunit:

Heterotetramer upon binding of the ligand. The heterotetramer is composed of an ephrin dimer and a receptor dimer. Oligomerization is probably required to induce biological responses. Interacts (via PDZ-binding motif) with GRIP1 and PICK1 (via PDZ domain). Interacts with ARHGEF15; mediates ARHGEF15 phosphorylation, ubiquitination and degradation by the proteasome. Interacts with AQP1; involved in endolymph production in the inner ear.

Subcellular Location:

Product Detail Cell membrane; Single-pass type I membrane protein. Cell projection, axon. Cell projection, dendrite.

Tissue Specificity:

Brain, heart, lung, kidney, placenta, pancreas, liver and skeletal muscle. Preferentially expressed in fetal brain.

DISEASE:

Defects in EPHB2 may be a cause of susceptibility to prostate cancer (PC) [MIM:176807]. It is a malignancy originating in tissues of the prostate. Most prostate cancers are adenocarcinomas that develop in the acini of the prostatic ducts. Other rare histopathologic types of prostate cancer that occur in approximately 5% of patients include small cell carcinoma, mucinous carcinoma, prostatic ductal carcinoma, transitional cell carcinoma, squamous cell carcinoma, basal cell carcinoma, adenoid cystic carcinoma (basaloid), signet-ring cell carcinoma and neuroendocrine carcinoma. Note=EPHB2 mutations have been found in a prostate cancer cell line derived from a brain metastasis.

Similarity:

Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.



Contains 1 Eph LBD (Eph ligand-binding) domain.

Contains 2 fibronectin type-III domains.

Contains 1 protein kinase domain.

Contains 1 SAM (sterile alpha motif) domain.

SWISS:

P29323

Gene ID:

2048

Database links:

[Entrez Gene: 2048](#) Human

[Entrez Gene: 13844](#) Mouse

[Omir: 600997](#) Human

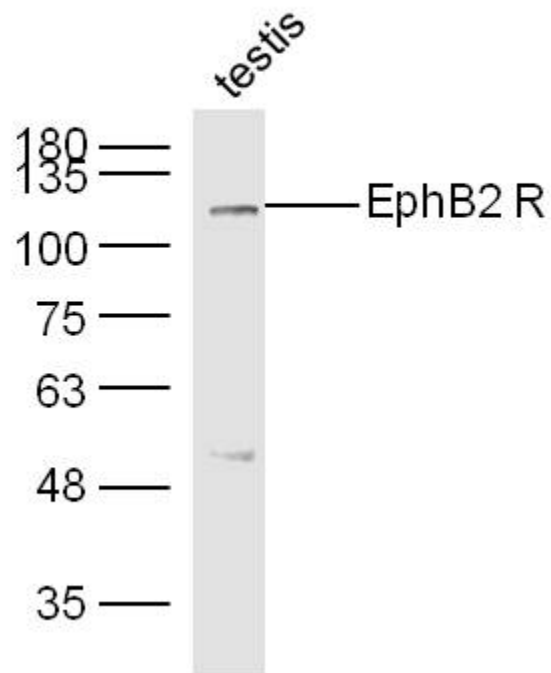
[SwissProt: P29323](#) Human

[SwissProt: P54763](#) Mouse

[Unigene: 523329](#) Human

[Unigene: 250981](#) Mouse

**Product
Picture**



Sample:

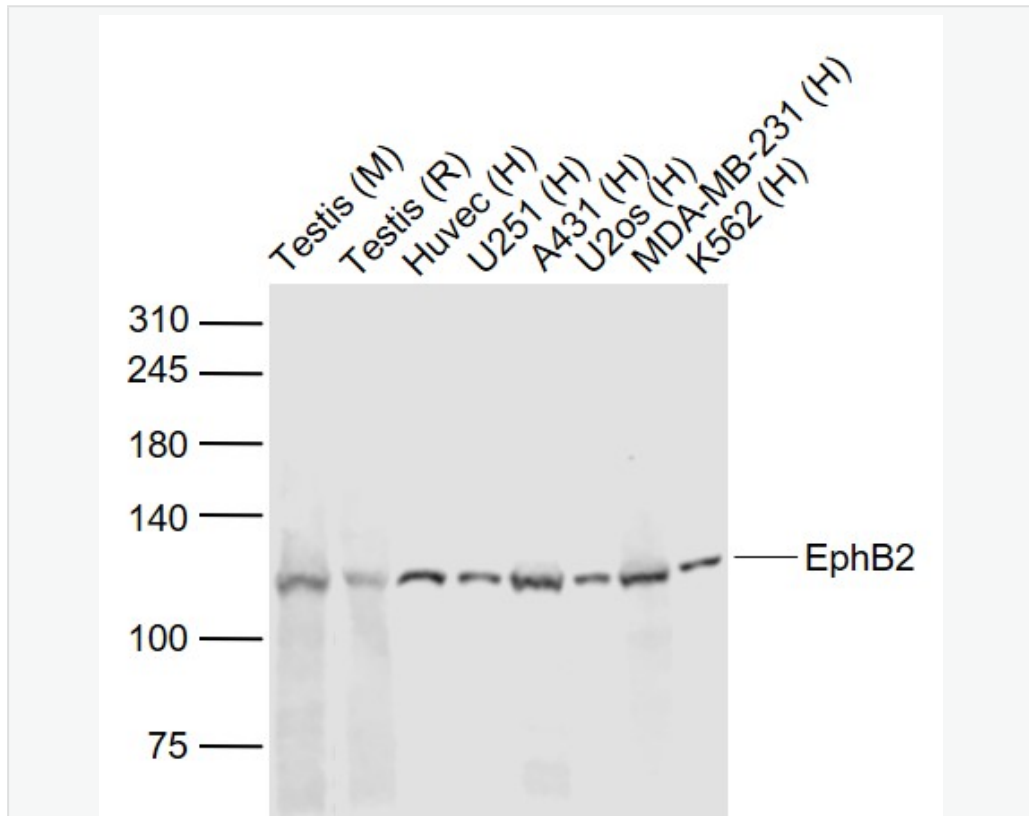
Testis (Mouse) Lysate at 40 ug

Primary: Anti-EphB2 R (SL0247R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 114 kD

Observed band size: 114 kD



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

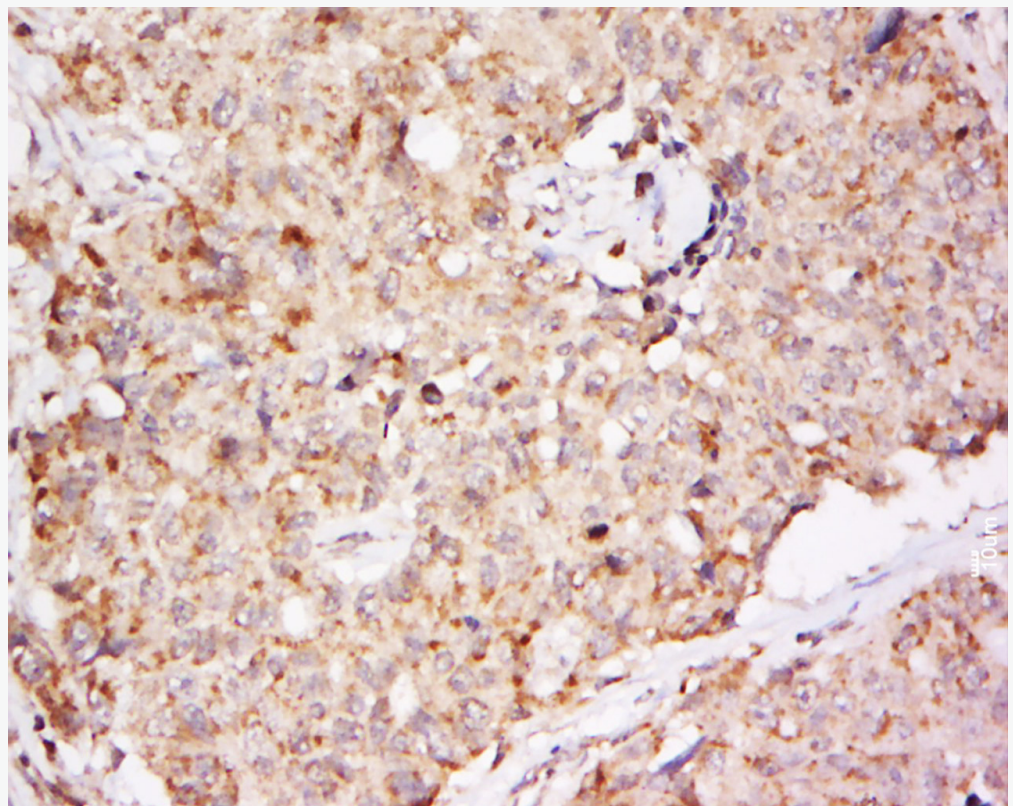
Lane 8: K562 (Human) Cell Lysate at 30 ug

Primary: Anti-EphB2 (SL0247R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 125 kD

Observed band size: 120 kD



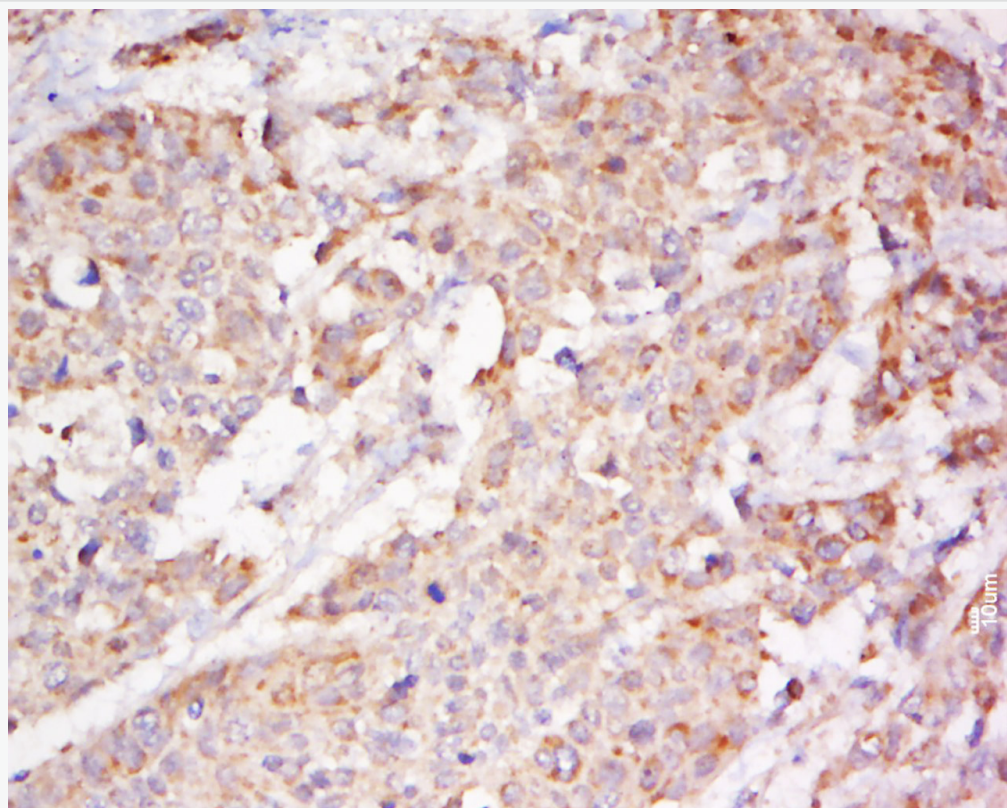
Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer

(Rat,Mouse,Human(predicted:Dog,Chicken)1M, 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-EphB2 R Polyclonal Antibody, Unconjugated(SL0247R)

1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer

(Rat,Mouse,Human(predicted:Dog,Chicken)1M, 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;



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Incubation: Anti-EphB2 R Polyclonal Antibody, Unconjugated(SL0247R)

1:500, overnight at 4°C, followed by conjugation to the secondary

antibody(SP-0023) and DAB(C-0010) staining