

**EFNB2 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3290a

**Specification**

---

**EFNB2 Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">P52799</a>
Other Accession	<a href="#">NP_004084.1</a> , <a href="#">1948</a> , <a href="#">13642 (mouse)</a> , <a href="#">306636 (rat)</a>
Reactivity	Human, Mouse, Rat
Predicted	Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	36923

**EFNB2 Antibody (internal region) - Additional Information**

**Gene ID** 1948

**Other Names**

Ephrin-B2, EPH-related receptor tyrosine kinase ligand 5, LERK-5, HTK ligand, HTK-L, EFNB2, EPLG5, HTKL, LERK5

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

EFNB2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**EFNB2 Antibody (internal region) - Protein Information**

**Name** EFNB2

**Synonyms** EPLG5, HTKL, LERK5

**Function**

Cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to

contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4. Together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells. May play a role in constraining the orientation of longitudinally projecting axons.

#### Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell junction, adherens junction {ECO:0000250|UniProtKB:P52800}

#### Tissue Location

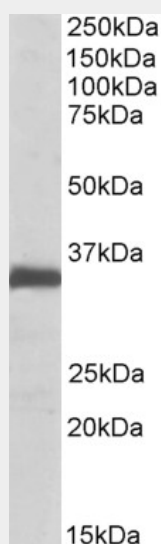
Lung and kidney.

### EFNB2 Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### EFNB2 Antibody (internal region) - Images



AF3290a (0.1 µg/ml) staining of Rat Lung lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### EFNB2 Antibody (internal region) - References

The phosphorylation of ephrin-B2 ligand promotes glioma cell migration and invasion. Nakada M,

Anderson EM, Demuth T, Nakada S, Reavie LB, Drake KL, Hoelzinger DB, Berens ME, International journal of cancer. Journal international du cancer 2010 Mar 126 (5): 1155-65. PMID: 19728339