

**KD-Validated Anti-Ephrin A1 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1514****Specification****KD-Validated Anti-Ephrin A1 Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P20827</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 24 kDa , observed , 24 kDa
Gene Name	KDa
Aliases	EFNA1 EFNA1; Ephrin A1; LERK1; Ephrin-A1; TNFAIP4; ECKLG; EPLG1; GMAN ; Gastric Cancer Metastasis Associated Long Noncoding RNA; EPH-Related Receptor Tyrosine Kinase Ligand 1; Tumor Necrosis Factor Alpha-Induced Protein 4; Immediate Early Response Protein B61; TNF Alpha-Induced Protein 4; LERK-1; Tumor Necrosis Factor, Alpha-Induced Protein 4; Eph-Related Receptor Tyrosine Kinase Ligand 1; Epididymis Secretory Sperm Binding Protein; Ligand Of Eph-Related Kinase 1; EFL1; B61
Immunogen	A synthesized peptide derived from human Ephrin A1

**KD-Validated Anti-Ephrin A1 Rabbit Monoclonal Antibody - Additional Information**

Gene ID	1942
<b>Other Names</b>	
Ephrin-A1, EPH-related receptor tyrosine kinase ligand 1, LERK-1, Immediate early response protein B61, Tumor necrosis factor alpha-induced protein 4, TNF alpha-induced protein 4, Ephrin-A1, secreted form, EFNA1, EPLG1, LERK1, TNFAIP4	

**KD-Validated Anti-Ephrin A1 Rabbit Monoclonal Antibody - Protein Information****Name** EFNA1**Synonyms** EPLG1, LERK1, TNFAIP4**Function**

Cell surface GPI-bound 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. Plays an important role in angiogenesis and tumor neovascularization. The recruitment of VAV2, VAV3 and PI3-kinase p85 subunit by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly. Exerts anti-oncogenic effects in tumor cells through activation and down- regulation of EPHA2. Activates EPHA2 by inducing tyrosine phosphorylation which leads to its internalization and degradation. Acts as a negative regulator in the tumorigenesis of gliomas by down- regulating EPHA2 and FAK. Can evoke collapse of embryonic neuronal growth cone and regulates dendritic spine morphogenesis.

#### Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor

#### Tissue Location

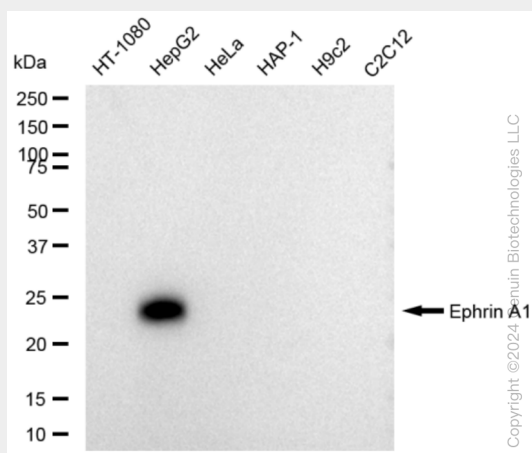
Brain. Down-regulated in primary glioma tissues compared to the normal tissues. The soluble monomeric form is expressed in the glioblastoma multiforme (GBM) and breast cancer cells (at protein level).

### KD-Validated Anti-Ephrin A1 Rabbit Monoclonal Antibody - Protocols

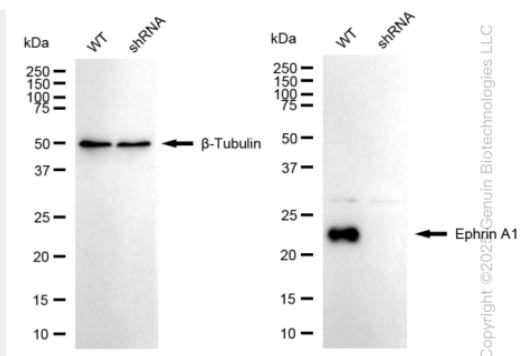
Provided below are standard protocols that you may find useful for product applications.

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

### KD-Validated Anti-Ephrin A1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Ephrin A1 antibody (Cat#AGI1514). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Ephrin A1 antibody (Cat#AGI1514, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Ephrin A1 antibody (Cat#AGI1514). Ephrin A1 expression in wild type (WT) and Ephrin A1(EFNA1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Ephrin A1 antibody (Cat#AGI1514, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.