

# Ephrin A1 Rabbit mAb

Catalog # AP78337

## Product Information

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| <b>Application</b>       | WB   |
| <b>Primary Accession</b> | <a href="#">P20827</a>                             |
| <b>Reactivity</b>        | Human  |
| <b>Host</b>              | Rabbit   |
| <b>Clonality</b>         | Monoclonal Antibody                                |
| <b>Isotype</b>           | IgG  |
| <b>Conjugate</b>         | Unconjugated                                       |
| <b>Immunogen</b>         | A synthesized peptide derived from human Ephrin A1 |
| <b>Purification</b>      | Affinity Purified                                  |
| <b>Calculated MW</b>     | 23787  |

## Additional Information

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| <b>Gene ID</b>     | 1942   |
| <b>Other Names</b> | EFNA1  |
| <b>Dilution</b>    | WB~~1/500-1/1000   |
| <b>Format</b>      | Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol. |
| <b>Storage</b>     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.           |

## Protein Information

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|-----------------|---|
| <b>Name</b>     | EFNA1   |
| <b>Synonyms</b> | EPLG1, LERK1, TNFAIP4   |
| <b>Function</b> | 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**

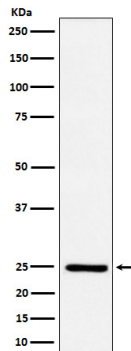
Cell membrane; Lipid-anchor, GPI-anchor

**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).

## Images

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