

Datasheet for ABIN5709443

Ephrin A1 Protein (EFNA1) (AA 18-182) (GST tag)[Go to Product page](#)**1** Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 100 µg |
| Target: | Ephrin A1 (EFNA1) |
| Protein Characteristics: | AA 18-182 |
| Origin: | Rat |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Ephrin A1 protein is labelled with GST tag. |
| Application: | SDS-PAGE (SDS) |

Product Details

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| Sequence: | ADRHIVFWSN SNPKFREEDY TVHVQLNDYL DIICPHYEDD SVADAAMERY TLYMVEHQEY VTCEPQSKDQ VRWKCNPQA KHGPEKLSEK FQRFTPFTLG KEFKEGHSYY YISKPIYHQE TQCLKLVTV NGKITHSPA HANPQEKRLQ ADDPEVQLH SIGH |
| Purification: | SDS-PAGE |
| Purity: | > 90 % |

Target Details

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|-------------------|---|
| Target: | Ephrin A1 (EFNA1) |
| Alternative Name: | EFNA1 (EFNA1 Products) |
| Background: | 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 |

Target Details

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 .

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|-------------------|----------|
| Molecular Weight: | 46.8 kDa |
|-------------------|----------|

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|----------|------------------------|
| UniProt: | P97553 |
|----------|------------------------|

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| Pathways: | RTK Signaling |
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Application Details

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| Application Notes: | Optimal working dilution should be determined by the investigator. |
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| Restrictions: | For Research Use only |
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Handling

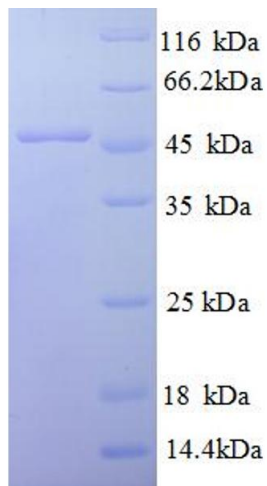
| | |
|---------|--------|
| Format: | Liquid |
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|----------------|-------------|
| Concentration: | 0.1-2 mg/mL |
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| Buffer: | 20 mM Tris-HCl based buffer, pH 8.0 |
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| Storage: | -80 °C, 4 °C, -20 °C |
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| Storage Comment: | Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
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SDS-PAGE

Image 1.