

## Recombinant Mouse Eph Receptor A7, GST-tagged

**Cat. No.** Epha7-1013H    **Lot. No.** (See product label)

### SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b>  | Recombinant mouse Epha7 (580-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>            | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>     | 580-end a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>       | <p>Epha7 is a member of the ephrin receptor subfamily of protein-tyrosine kinases family that have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2-fibronectin types III repeats. Epha7 mediated signaling act as a physiologic trigger for apoptosis that can alter brain size and shape by regulating the number of neural progenitors. The high expression of Epha7 protein plays an important role in the malignancy transformation, invasion progression and metastasis of primary hepatocellular carcinoma.</p> |
| <b>Applications</b>      | Kinase Assay; Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Weight</b>  | 73 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Expression System</b> | Sf9 insect cells using baculovirus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>              | Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.                                                                                             |
| <b>Specific Activity</b> | 35 nmol/min/mg                                                                                                                                                                                                                          |
| <b>Purity</b>            | > 95 %                                                                                                                                                                                                                                  |
| <b>Concentration</b>     | 0.1 ug/ul                                                                                                                                                                                                                               |
| <b>Sequences</b>         | 580-end                                                                                                                                                                                                                                 |
| <b>Storage</b>           | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| <b>Pathways</b>          | Axon guidance                                                                                                                                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Epha7 Eph receptor A7 [ Mus musculus ]</a>                                                                                                                                                                    |
| <b>Official Symbol</b> | <a href="#">Epha7</a>                                                                                                                                                                                                     |
| <b>Synonyms</b>        | Epha7; Eph receptor A7; Ebk; Ehk3; Mdk1; Cek11; Hek11; ephrin type-A receptor 7; EHK-3; mDK-1; OTTMUSP00000005092; OTTMUSP00000005094; EPH homology kinase 3; developmental kinase 1; embryonic brain kinase; EC 2.7.10.1 |
| <b>Gene ID</b>         | <a href="#">13841</a>                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>     | <a href="#">NM_001122889</a>                                                                                                                                                                                              |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | NP_001116361                                                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>          | Q8CC52                                                                                                                                                                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 4 A4; 4 1.9 cM                                                                                                                                                                                                                                                                                                                                             |
| <b>Function</b>            | ATP binding; chemorepellent activity; ephrin receptor activity; ephrin receptor binding; kinase activity; nucleotide binding; protein kinase activity; protein tyrosine kinase activity; receptor activity; transferase activity; transferase activity, transferring phosphorus-containing groups; transmembrane receptor protein tyrosine kinase activity |

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