

Recombinant Human EPH Receptor A6, GST-tagged

Cat. No. EPHA6-1012H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EPHA6 (561-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	561-end a.a.
Description	EPHA6 is a member of the ephrin receptor subfamily of protein-tyrosine kinases which have been implicated in axon guidance, neuron-target interactions, regional compartmentalization, and synaptic functions in nervous systems. EPHA6 is highly expressed in the brain and testis. Reduction in EPHA6 has been detected in Hypospadias, a common defect affecting the growth and closure of the external genitalia. Genetic inhibition of EPHA6 in mice produces behavioral deficits specifically in tests of learning and memory. Mice deficient in EPHA6 show reduced memory of the consequences of the training context.
Applications	Kinase Assay; Western Blot
Molecular Weight	73 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM

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	glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Specific Activity	9.0 nmol/min/mg
Purity	> 70 %
Concentration	0.1 ug/ul
Sequences	561-end
Storage	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.
Pathways	Axon guidance; EPHA forward signaling; EphrinA-EPHA pathway

GENE INFORMATION

Gene Name	EPHA6 EPH receptor A6 [Homo sapiens]
Official Symbol	EPHA6
Synonyms	EPHA6; EPH receptor A6; UNQ6114; DKFZp434C1418; EPA6; FLJ35246; PRO57066; ephrin type-A receptor 6; EHK-2; OTTHUMP00000214353; ephrin receptor EphA6; OTTHUMP00000217916; OTTHUMP00000217917; EPH homology kinase 2; EC 2.7.10.1
Gene ID	285220
mRNA Refseq	NM_001080448

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Protein Refseq	NP_001073917
MIM	600066
UniProt ID	B3KS12
Chromosome Location	3q11.2
Function	ATP binding; ephrin receptor activity; molecular function; nucleotide binding; receptor activity

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