

Active Recombinant Mouse Ephrin A2, His-tagged

Cat. No. Efna2-431M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Efna2 is expressed in Murine myeloma cell line, which has a molecule weight of 46 kDa. Glu23 Asn184.
Species	Mouse
Source	Mammalian Cells
Description	EphrinA2, also known as ELF1, Cek7L and LERK6, is a member of the Ephrin ligand family which binds members of the Eph receptor family. All ligands share a conserved extracellular sequence, which most likely corresponds to the receptor binding domain. This conserved sequence consists of approximately 125 amino acids (aa) and includes four invariant cysteines. The A class ligands have a GPI anchor following the conserved sequence. EphrinA2 has been shown to bind EphA2, EphA3, EphA4, EphA5, EphA6, EphA7, and EphA8. The extracellular domains of human and mouse EphrinA2 share 93% aa identity. Only membrane bound or Fc clustered ligands are capable of activating the receptor in vitro. While soluble monomeric ligands bind the receptor they do not induce receptor autophosphorylation and activation. In vivo, the ligands and receptors display reciprocal expression. It has been found that nearly all receptors and ligands are expressed in developing and adult neural tissue. The Eph/Ephrin families also appear to play a role in angiogenesis.
Form	Lyophilized from a 0.2µm filtered solution in PBS.
N-terminal Sequence	Glu23

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Molecular Weight	46 kDa
Activity	Measured by its bindingability in a functional ELISA. Immobilized rmEphA2/Fc Chimera at 2 µg/mL (100µ/well) can bind rmEphrinA1 Fc Chimera with a line range of 0.16 - 10 ng/mL.
Purity	>90%, by SDS-PAGEunder reducing conditions and visualized by silver stain.
Endotoxin Level	<1.0 EU per 1 µg of the proteinby the LAL method.
Reconstitution	Reconstitute at 100 µg/mL in PBS.
Storage	Use a manual defrostfreezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution.3 months, -20 to -70 °C under sterile conditions after reconstitution.
OfficialSymbol	Efna2

GENE INFORMATION

Gene Name	Efna2 ephrin A2 [Mus musculus]
Synonyms	Efna2; ephrin A2; Elf1;Epl6; CEK7L; Eplg6; Lerk6; ephrin-A2; ephrin A6; CEK7-ligand; EPH related receptortyrosine kinase ligand 6; EPH-related receptor tyrosine kinase ligand 6
Gene ID	13637
mRNA Refseq	NM_007909

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Protein Refseq	NP_031935
UniProt ID	P52801
Chromosome Location	10 C1; 10 44.0 cM
Pathway	Axon guidance
Function	ephrin receptor binding;protein binding

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