

Active Recombinant Human EFNA2 protein, His-tagged

Cat. No. EFNA2-1407H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human EFNA2 protein(O43921)(45-213 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	45-213 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Ephrin A2 (EFNA2) is a cell surface-associated protein belonging to the Ephrin family, which are involved in intercellular communication and cell localization. EFNA2 is mainly expressed in tissues including the brain, heart, lung, kidney and pancreas. And this protein is involved in regulating a variety of biological processes, including cell migration, cell differentiation, and tissue boundary formation, by interacting with Eph receptors. It also plays a significant role in the development and maintenance of the cardiovascular system, as well as in the regulation of synaptic plasticity and neuronal circuitry in the brain. A Disintegrin And Metalloprotease 10 (ADAM10), a disintegrin and metalloproteinase, can cleave EFNA2, potentially altering the activity of EFNA2 or its interaction with Eph receptors, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human EFNA2 and recombinant rat ADAM10. Briefly, biotin-linked EFNA2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to

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ADAM10-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µstop solution to the wells and read at 450 nm immediately. The binding activity of EFNA2 and ADAM10 was shown, the EC50 for this effect is 1.38 ug/mL.

Molecular Mass	22.7kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	EFNA2 ephrin-A2 [Homo sapiens]
Official Symbol	EFNA2
Synonyms	EFNA2; ephrin-A2; EPLG6; ELF 1; LERK6; HEK7 ligand; eph-related receptor tyrosine kinase ligand 6; ELF-1; HEK7-L; LERK-6;
Gene ID	1943
mRNA Refseq	NM_001405

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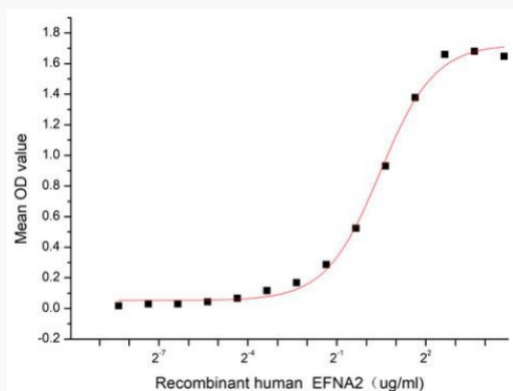
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Protein Refseq NP_001396

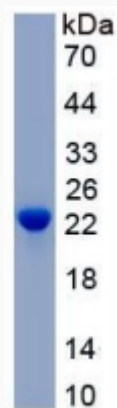
MIM 602756

UniProt ID O43921

Activity



SDS-PAGE



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