

Active Recombinant Human EFNA3 protein, His-tagged

Cat. No. EFNA3-1219H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human EFNA3 protein(P52797)(30-238 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	30-238 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Ephrin A3 (EFNA3) , also known as EFL2, EPLG3, LERK3, Ehk1-L, is a member of the Eph/ephrin tyrosine kinase family. EFNA3 is localized in cell membranes and was highly expressed in brain, skin, esophagus, skeletal muscle, spleen, thymus, prostate, testis, ovary, small intestine, peripheral blood leukocytes. EFNA3, like most genes in the ephrin family, plays a central role in embryonic development can associate with multiple signaling pathways involved in cell growth and tumor cell metastasis. Aberrant regulation of EFNA3 is associated with the occurrence and development of various types of cancer. Ephrin Type A Receptor 4 (EPHA4) is a receptor for members of the ephrin-A family. It can bind to EFNA3. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human EFNA3 and recombinant human EPHA4. Briefly, EFNA3 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to EPHA4-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST

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and incubated for 1h with anti-EFNA3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, 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 µ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human EFNA3 and recombinant human EPHA4 was shown, the EC50 for this effect is 0.4 ug/mL.

Molecular Mass	27.2kDa
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	EFNA3 ephrin-A3 [Homo sapiens]
Official Symbol	EFNA3
Synonyms	EFNA3; ephrin-A3; EPLG3; Ehk1 L; LERK3; EFL-2; LERK-3; EHK1 ligand; ligand of eph-related kinase 3; eph-related receptor tyrosine kinase ligand 3; EFL2; Ehk1-L;
Gene ID	1944
mRNA Refseq	NM_004952

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Protein Refseq	NP_004943
MIM	601381
UniProt ID	P52797

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