

Active Recombinant Rat Efna4 protein, His-GST-tagged

Cat. No. Efna4-1132R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Efna4 protein(D3ZEN1)(1-204 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	1-204 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Ephrin-A4, also known as EFNA4 and EFL-4, is a member of the ligand of the EPH family. It is mainly expressed in the spleen, lymph nodes, ovary, small intestine and colon of adults, as well as in the heart, lungs, liver, and kidneys of the fetus. It is involved in the development of neurons, blood vessels, and epithelium by regulating cell migration, rejection, and adhesion. Ephrin-A4 has been shown to bind FYN, EphA2, EphA3, EphA4, EphA5, EphA6, EphA7, and EphB1. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant rat EFNA4 and recombinant human FYN. Briefly, EFNA4 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to FYN-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-EFNA4 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-

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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 rat EFNA4 and recombinant human FYN was shown, the EC50 for this effect is 0.37 ug/mL.

Molecular Mass 52.7kDa

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 [Efna4 ephrin A4 \[Rattus norvegicus \]](#)

Official Symbol [Efna4](#)

Synonyms EFNA4; ephrin A4; ephrin-A4;

Gene ID [310643](#)

mRNA Refseq [NM_001107692](#)

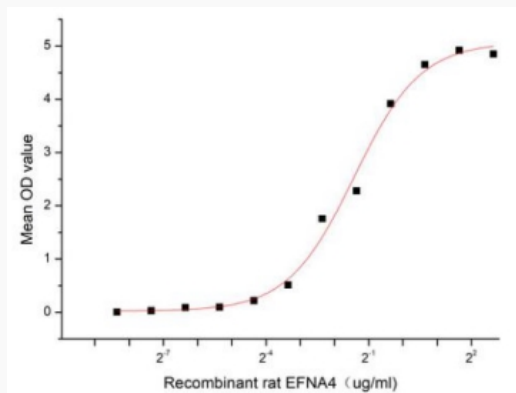
Protein Refseq [NP_001101162](#)

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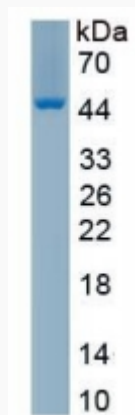
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Activity



SDS-PAGE



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