

Active Recombinant Human EFNB2 protein, His-tagged

Cat. No. EFNB2-6870H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human EFNB2 protein(P52799)(28-229 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	28-229 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	EphrinB2 (EFNB2), a 40 kDa member of the Ephrin B family, is a pivotal bidirectional signaling molecule ubiquitously expressed in mammals and is crucial in angiogenesis during development and disease progression. Besides, EFNB2 is expressed at abnormally high levels in some neoplasms, such as squamous cell carcinoma of the head and neck and colorectal cancer. Its overexpression is associated with the malignant progression of tumors. Reelin (RELN) has been identified as an interactor of EFNB2, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human EFNB2 and recombinant human RELN. Briefly, EFNB2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to RELN-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-EFNB2 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

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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 EFNB2 and recombinant human RELN was shown, the EC50 for this effect is 0.02 ug/mL.

Molecular Mass	25.9kDa
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	EFNB2 ephrin-B2 [Homo sapiens]
Official Symbol	EFNB2
Synonyms	EFNB2; ephrin-B2; EPLG5; eph related receptor tyrosine kinase ligand 5; HTK ligand; Htk L; HTKL; LERK5; ligand of eph related kinase 5; MGC126226; MGC126227; MGC126228; LERK-5; ligand of eph-related kinase 5; eph-related receptor tyrosine kinase ligand 5; Htk-L;
Gene ID	1948
mRNA Refseq	NM_004093

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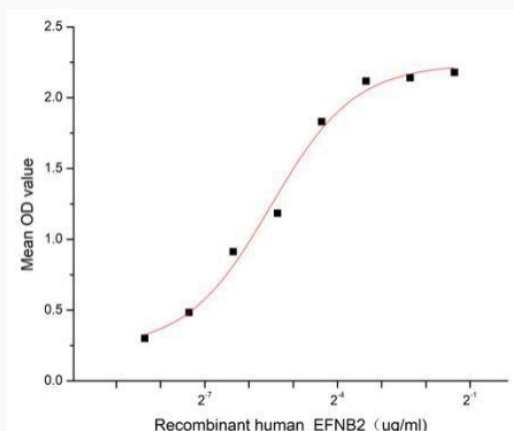
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Protein Refseq NP_004084

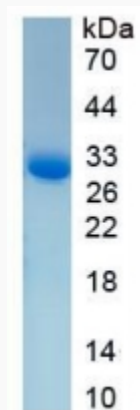
MIM 600527

UniProt ID P52799

Activity



SDS-PAGE



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