

Ephrin B2 (EFNB2) Active Protein | EFNB2 active protein

Active Ephrin B2 (EFNB2)

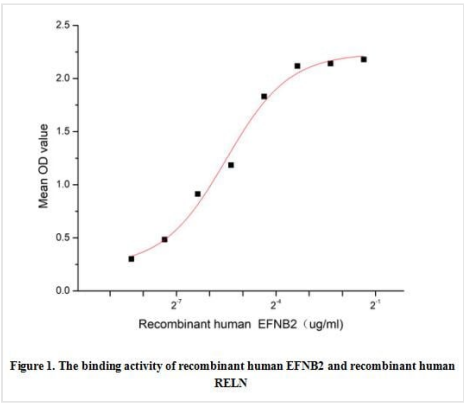
CATALOG # AAA161920	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Ephrin B2 (EFNB2); Active Ephrin B2 (EFNB2); Ephrin B2; EPLG5; HTKL; Htk-L; LERK5; HTK Ligand; Ligand Of Eph-Related Kinase 5; Eph-Related Receptor Tyrosine Kinase Ligand 54; EFNB2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Ile28~Ala2 29
Applicable Applications for EFNB2 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.8
Research Area	Neuro science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

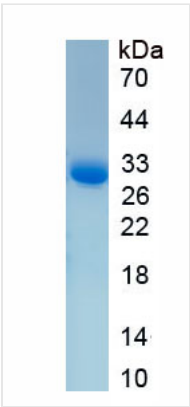


Bioactivity

EphrinB2 (EFNB2), a 40 kDa member of the EphrinB 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 ul were then transferred to RELN-coated microtiter wells and incubated for 1h at 37 degree 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 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL 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 in Figure 1, the EC50 for this effect is 0.02 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for EFNB2 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4758250
NCBI GeneID	1948
NCBI Accession #	NP_004084.1
NCBI GenBank Nucleotide #	NM_004093.3
UniProt Accession #	P52799; Q5JV56
Molecular Weight	333
NCBI Official Full Name	ephrin-B2
NCBI Official Synonym Full Names	ephrin-B2
NCBI Official Symbol	EFNB2
NCBI Official Synonym Symbols	HTKL; EPLG5; Htk-L; LERK5
NCBI Protein Information	ephrin-B2; LERK-5; HTK ligand; ligand of eph-related kinase 5; eph-related receptor tyrosine kinase ligand 5
UniProt Protein Name	Ephrin-B2
UniProt Gene Name	EFNB2
UniProt Synonym Gene Names	EPLG5; HTKL; LERK5; LERK-5; HTK-L

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/ephrin-b2-efnb2/161920>