

Anti-Ephrin-B2 Reference Antibody (Medimmune patent anti-Ephrin-B2)

Catalog # APR11407

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P52799
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	36923

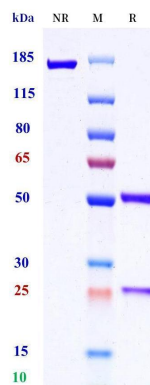
Additional Information

Target/Specificity	Ephrin-B2
Expression system	CHO

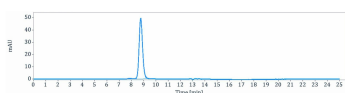
Protein Information

Name	EFNB2
Synonyms	EPLG5, HTKL, LERK5
Function	Cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4. Together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells. May play a role in constraining the orientation of longitudinally projecting axons.
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell junction, adherens junction {ECO:0000250 UniProtKB:P52800}
Tissue Location	Lung and kidney.

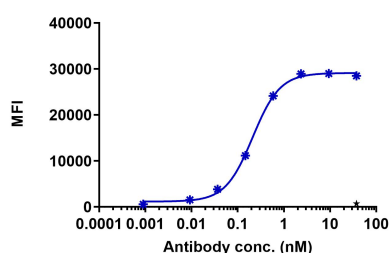
Images



Anti-Ephrin-B2 Reference Antibody (Medimmune patent anti-Ephrin-B2) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-Ephrin-B2 Reference Antibody (Medimmune patent anti-Ephrin-B2) is 98.74%, determined by SEC-HPLC.



PLVX-puro-Ephrin-B2-FL cell line were stained with Medimmune patent anti-Ephrin-B2 and negative control protein respectively, washed and then followed by PE and analyzed with FACS, with the EC50 is 0.2112 nM.

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