

Anti-EphB3 Reference Antibody (Xoma patent anti-EphB3)

Catalog # APR11438

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P54753
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	110330

Additional Information

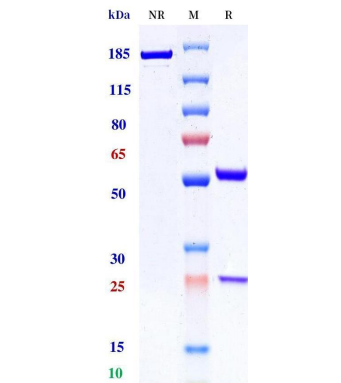
Target/Specificity	EphB3
Expression system	CHO

Protein Information

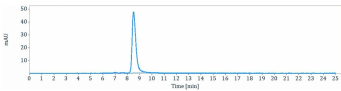
Name	EPHB3
Synonyms	ETK2, HEK2, TYRO6
Function	Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Generally has an overlapping and redundant function with EPHB2. Like EPHB2, functions in axon guidance during development regulating for instance the neurons forming the corpus callosum and the anterior commissure, 2 major interhemispheric connections between the temporal lobes of the cerebral cortex. In addition to its role in axon guidance also plays an important redundant role with other ephrin-B receptors in development and maturation of dendritic spines and the formation of excitatory synapses. Controls other aspects of development through regulation of cell migration and positioning. This includes angiogenesis, palate development and thymic epithelium development for instance. Forward and reverse signaling through the EFNB2/EPHB3 complex also regulate migration and adhesion of cells that tubularize the urethra and septate the cloaca. Finally, plays an important role in intestinal epithelium differentiation segregating progenitor from differentiated cells in the crypt.
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell projection, dendrite

Tissue Location Ubiquitous.

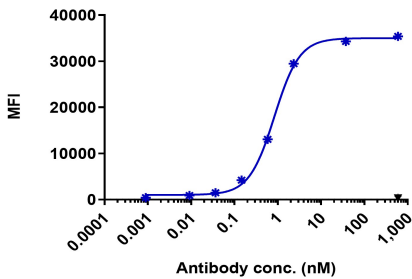
Images



Anti-EphB3 Reference Antibody (Xoma patent anti-EphB3) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-EphB3 Reference Antibody (Xoma patent anti-EphB3) is 98.6%, determined by SEC-HPLC.



PLVX-puro-EphB3-FL cell line were stained with Xoma patent anti-EphB3 and negative control protein respectively, washed and then followed by PE and analyzed with FACS, with the EC50 is 0.837 nM.

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