

Anti-EPHA5 Reference Antibody (MBRC-101)

Catalog # APR11501

Product Information

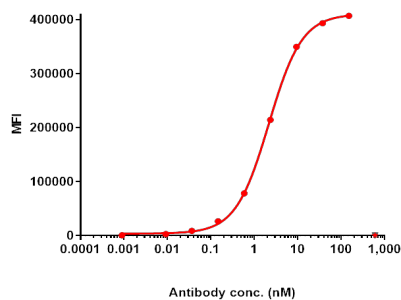
Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P54756
Reactivity	Human
Clonality	Monoclonal
Isotype	ScFv-C6His
Calculated MW	114803

Additional Information

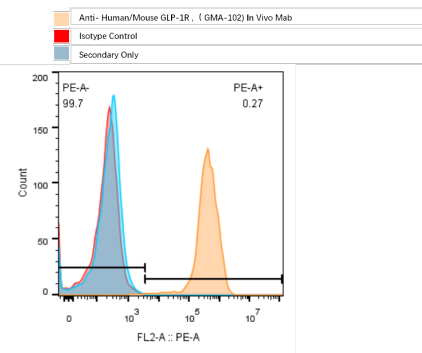
Target/Specificity	EPHA5
Expression system	CHO

Protein Information

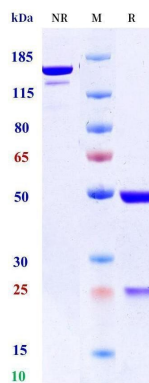
Name	EPHA5
Synonyms	BSK, EHK1, HEK7, TYRO4
Function	Receptor tyrosine kinase which binds promiscuously GPI- anchored ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Among GPI-anchored ephrin-A ligands, EFNA5 most probably constitutes the cognate/functional ligand for EPHA5. Functions as an axon guidance molecule during development and may be involved in the development of the retinotectal, entorhino- hippocampal and hippocamposeptal pathways. Together with EFNA5 plays also a role in synaptic plasticity in adult brain through regulation of synaptogenesis. In addition to its function in the nervous system, the interaction of EPHA5 with EFNA5 mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell projection, axon {ECO:0000250 UniProtKB:P54757}. Cell projection, dendrite
Tissue Location	Almost exclusively expressed in the nervous system in cortical neurons, cerebellar Purkinje cells and pyramidal neurons within the cortex and hippocampus. Display an increasing gradient of expression from the forebrain to hindbrain and spinal cord



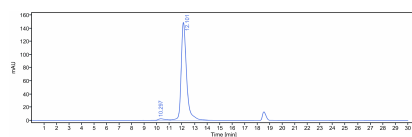
Mouse GLP-1R-expressing HEK293 cells were stained with Anti- Human/Mouse GLP-1R ,(GMA-102) In Vivo Mab, with isotype and secondary-only controls. Flow analysis showed specific binding of the antibody, with an EC50 of 1.858 nM.



Mouse GLP-1R-expressing HEK293 cells were stained with Anti- Human/Mouse GLP-1R ,(GMA-102) In Vivo Mab. Compared to the isotype control and secondary-only control, a GLP-1R-positive population is apparent.



Anti- Human/Mouse GLP-1R,(GMA-102)In Vivo Mab on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti- Human/Mouse GLP-1R,(GMA-102)In Vivo Mab is 97%, determined by SEC-HPLC.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.