EphA7 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	EphA7, Polyclonal Antibody
Full Product Name	EphA7 Polyclonal Antibody
Product Gene Name	anti-EphA7 antibody
Clonality	Polyclonal
Molecular Weight	50,521 Da
OMIM	602190
3D Structure	ModBase 3D Structure for Q15375
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-EphA7 antibody	MBS8526001 is an antibody targeting EphA7. Also known as EphA7 Polyclonal Antibody.
Other Notes	Small volumes of anti-EphA7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EphA7. It may not necessarily be applicable to this product.

NCBI GI #	568599847
NCBI GeneID	2045
NCBI Accession #	NP_001275558.1
UniProt Primary Accession #	Q15375
UniProt Secondary Accession #	Q59G40; Q5VTU0; Q8N368; Q9H124; A0AUX7; B2R8W1; B7ZLJ9; B7ZLK0
UniProt Related Accession #	Q15375
GenBank Nucleotide #	NM_001288629.1
NCBI Official Full Name	ephrin type-A receptor 7 isoform 2
NCBI Official Synonym Full Names	EPH receptor A7
NCBI Official Symbol	EPHA7
NCBI Official Synonym Symbols	EHK3; EK11; EHK-3; HEK11
UniProt Protein Name	Ephrin type-A receptor 7
UniProt Synonym Protein Names	EPH homology kinase 3; EHK-3; EPH-like kinase 11; EK11; hEK11
Protein Family	Ephrin type-A receptor
UniProt Gene Name	EPHA7
UniProt Synonym Gene Names	EHK3; HEK11; EHK-3; EK11; hEK11
NCBI Protein Information	ephrin type-A receptor 7

NCBI Summary for EphA7	This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Increased expression of this gene is associated with multiple forms of carcinoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]
UniProt Comments for EphA7	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 is a cognate/functional ligand for EPHA7 and their interaction regulates brain development modulating cell-cell adhesion and repulsion. Has a repellent activity on axons and is for instance involved in the guidance of corticothalamic axons and in the proper topographic mapping of retinal axons to the colliculus. May also regulate brain development through a caspase(CASP3)-dependent proapoptotic activity. Forward signaling may result in activation of components of the ERK signaling pathway including MAP2K1, MAP2K2, MAPK1 AND MAPK3 which are phosphorylated upon activation of EPHA7.
Research Articles on EphA7	**1.** these findings suggest that miR-448 functioned as a tumor suppressor gene in the development of osteosarcoma through targeting EPHA7.
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