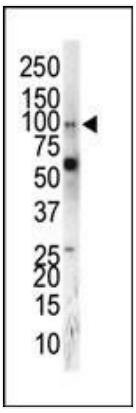
EphA5 Antibody – Rabbit Polyclonal

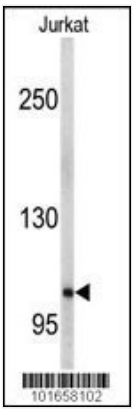
PRODUCT OVERVIEW

Product Name	EphA5, Polyclonal Antibody
Full Product Name	EphA5, CT (Ephrin type-A receptor 5, Tyrosine-protein kinase receptor EHK-1, Eph homology kinase-1, Receptor protein-tyrosine kinase HEK7, EPH-like kinase 7, EK7, EHK1, HEK7) (Azide free) (HRP)
Product Gene Name	anti-EphA5 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human EphA5. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	114,803 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (66185281..66535653, complement). Location: 4q13.1
OMIM	600004
3D Structure	ModBase 3D Structure for P54756
Immunogen	Synthetic peptide selected from the C-terminal region of human EphA5 (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-EphA5 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-EphA5 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-EphA5 antibody	IHC: 1:50-1:100 ELISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-EphA5 antibody	MBS6474271 is an antibody targeting EphA5. Also known as EphA5, CT (Ephrin type-A receptor 5, Tyrosine-protein kinase receptor EHK-1, Eph homology kinase-1, Receptor protein-tyrosine kinase HEK7, EPH-like kinase 7, EK7, EHK1, HEK7) (Azide free) (HRP). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-EphA5 antibody	1. Pejovic, T. et al., Transl Oncol. Dec 01; 2(4): 341-9(2009). 2. Fox, G.M., et al., Oncogene 10(5):897-905 (1995).

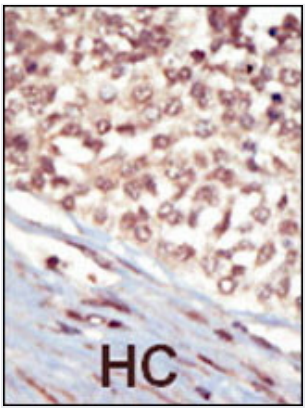
Other Notes	Small volumes of anti-EphA5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-EphA5 antibody
Western blot analysis of anti-EphA5 C-term Pab in mouse brain tissue. EphA5 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western Blot (WB) of anti-EphA5 antibody
Western blot analysis of anti-EphA5 Antibody (C-term) in Jurkat cell line lysates (35ug/lane). EPHA5(arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-EphA5 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EphA5. It may not necessarily be applicable to this product.

NCBI GI #	221625401
NCBI GeneID	2044
NCBI Accession #	NP_004430.4
UniProt Primary Accession #	P54756
UniProt Secondary Accession #	Q7Z3F2
UniProt Related Accession #	P54756
GenBank Nucleotide #	NM_004439.5
NCBI Official Full Name	ephrin type-A receptor 5 isoform a
NCBI Official Synonym Full Names	EPH receptor A5
NCBI Official Symbol	EPHA5

NCBI Official Synonym Symbols	CEK7; EHK1; HEK7; TYRO4
UniProt Protein Name	Ephrin type-A receptor 5
UniProt Synonym Protein Names	Brain-specific kinase; EPH homology kinase 1; EHK-1; EPH-like kinase 7
Protein Family	Ephrin type-A receptor
UniProt Gene Name	EPHA5
UniProt Synonym Gene Names	BSK; EHK1; HEK7; TYRO4; EHK-1; EK7; hEK7
UniProt Entry Name	EPHA5_HUMAN
NCBI Protein Information	ephrin type-A receptor 5; EK7; EHK-1; EPH-like kinase 7; EPH homology kinase 1; Eph homology kinase-1; brain-specific kinase; receptor protein-tyrosine kinase HEK7; tyrosine-protein kinase receptor EHK-1
NCBI Summary for EphA5	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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2009]
UniProt Comments for EphA5	EphA5: 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. Beside its function in the nervous system, the interaction of EPHA5 with EFNA5 mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion. Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Protein kinase, tyrosine (receptor); Protein kinase, TK; Kinase, protein; EC 2.7.10.1; TK group; Eph family Chromosomal Location of Human Ortholog: 4q13.1 Cellular Component: rough endoplasmic reticulum; cell soma; axon; perinuclear region of cytoplasm; integral to plasma membrane; dendrite; plasma membrane; external side of plasma membrane Molecular Function: transmembrane-ephrin receptor activity; GPI-linked ephrin receptor activity; ephrin receptor activity; ATP binding Biological Process: axon guidance; cAMP-mediated signaling; peptidyl-tyrosine phosphorylation; regulation of actin cytoskeleton organization and biogenesis; hippocampus development; activation of CREB transcription factor; ephrin receptor signaling pathway; neuron development
Research Articles on EphA5	**1.** these data suggest that miR-34a is a negative modulator of chondrogenesis, particularly in migration of chondroblasts, by targeting EphA5 and resulting inhibition of cellular condensation during chondrogenesis of chick limb mesenchymal cells.
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