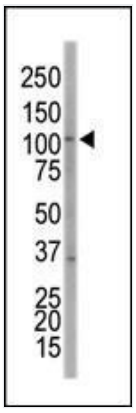
EphA7 Antibody – Rabbit Polyclonal

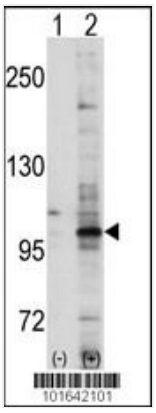
PRODUCT OVERVIEW

Product Name	EphA7, Polyclonal Antibody
Full Product Name	EphA7, CT (EPHA7, EHK3, HEK11, Ephrin type-A receptor 7, EPH homology kinase 3, EPH-like kinase 11) (PE)
Product Gene Name	anti-EphA7 antibody
Product Synonym Names	EPHA7; EHK3; HEK11; Ephrin type-A receptor 7; EPH homology kinase 3; EPH-like kinase 11
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	112,097 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (93949738..94129300, complement). Location: 6q16.1
OMIM	602190
3D Structure	ModBase 3D Structure for Q15375
Immunogen	EphA7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 904~933 amino acids from the C-terminal region of human EphA7.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-EphA7 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-EphA7 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-EphA7 antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

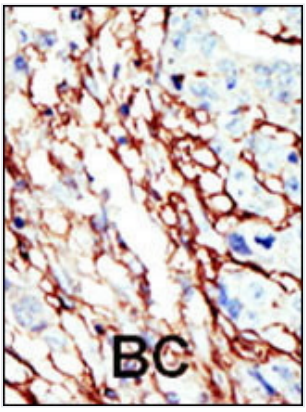
Related Product Information for anti-EphA7 antibody	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The tyrosine kinase (TK) group is mainly involved in the regulation of cell-cell interactions such as differentiation, adhesion, motility and death. There are currently about 90 TK genes sequenced, 58 are of receptor protein TK (e.g. EGFR, EPH, FGFR, PDGFR, TRK, and VEGFR families), and 32 of cytosolic TK (e.g. ABL, FAK, JAK, and SRC families).
Product References and Citations for anti-EphA7 antibody	Wilkinson, D.G., Nat Rev Neurosci 2(3):155-164 (2001). Xu, Q., et al., Philos. Trans. R. Soc. Lond., B, Biol. Sci. 355(1399):993-1002 (2000). Holder, N., et al., Development 126(10):2033-2044 (1999). Zhou, R., Pharmacol. Ther. 77(3):151-181 (1998). Fox, G.M., et al., Oncogene 10(5):897-905 (1995).
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.
Searchable Terms for EphA7 purchase	MBS6296017 is an antibody targeting EphA7. Also known as EphA7, CT (EPHA7, EHK3, HEK11, Ephrin type-A receptor 7, EPH homology kinase 3, EPH-like kinase 11) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-EphA7 antibody
Western blot analysis of anti-EphA7 Pab in NCI-H460 cell lysate. EphA7 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western Blot (WB) of anti-EphA7 antibody
Western blot analysis of EPHA7 (arrow) using EphA7 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EPHA7 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-EphA7 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 EphA7. It may not necessarily be applicable to this product.

NCBI GI #	4758282
NCBI GeneID	2045
NCBI Accession #	NP_004431.1
UniProt Primary Accession #	Q15375
UniProt Secondary Accession #	Q59G40; Q5VTU0; Q8N368; Q9H124; A0AUX7; B2R8W1; B7ZLJ9; B7ZLK0
UniProt Related Accession #	Q15375
GenBank Nucleotide #	NM_004440.3
NCBI Official Full Name	ephrin type-A receptor 7
NCBI Official Synonym Full Names	EPH receptor A7
NCBI Official Symbol	EPHA7
NCBI Official Synonym Symbols	EHK3; HEK11
UniProt Protein Name	Ephrin type-A receptor 7
UniProt Synonym Protein Names	EPH homology kinase 3; EHK-3; EPH-like kinase 11
Protein Family	Ephrin type-A receptor
UniProt Gene Name	EPHA7
UniProt Synonym Gene Names	EHK3; HEK11; EHK-3; EK11; hEK11
UniProt Entry Name	EPHA7_HUMAN
NCBI Protein Information	ephrin type-A receptor 7; EK11; EHK-3; EPH-like kinase 11; EPH homology kinase 3; Eph homology kinase-3; receptor protein-tyrosine kinase HEK11; tyrosine-protein kinase receptor EHK-3
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. [provided by RefSeq, Jul 2008]
UniProt Comments for EphA7	EphA7: a widely-expressed receptor tyrosine kinase of the Eph family. Receptor for members of the ephrin-A family. Binds to ephrin-A1, -A2, -A3, -A4 and -A5. Contains 1 sterile alpha motif (SAM) and two fibronectin type III domains. Protein type: Protein kinase, TK; Membrane protein, integral; Kinase, protein; EC 2.7.10.1; Protein kinase, tyrosine (receptor); TK group; Eph family Chromosomal Location of Human Ortholog: 6q16.1 Cellular Component: postsynaptic membrane; cell soma; integral to plasma membrane; dendrite; plasma membrane; neuromuscular junction Molecular Function: protein binding; ephrin receptor binding; chemorepellent activity; protein-tyrosine kinase activity; GPI-linked ephrin receptor activity; axon guidance receptor activity; ATP binding Biological Process: axon guidance; regulation of cell-cell adhesion; peptidyl-tyrosine phosphorylation; branching morphogenesis of a nerve; regulation of protein amino acid autophosphorylation; positive regulation of neuron apoptosis; ephrin receptor signaling pathway; negative chemotaxis; brain development; regulation of caspase activity; phosphorylation; regulation of peptidyl-tyrosine phosphorylation; retinal ganglion cell axon guidance
Research Articles on EphA7	**1.** The expression of EphA7 and/or MTDH might be closely related to the carcinogenesis, progression, clinical biological behaviors and prognosis of gallbladder adenocarcinoma.

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