

Product datasheet

info@arigobio.com

ARG66572 anti-EphA7 phospho (Tyr791) antibody

Package: 100 μg Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes EphA7 phospho (Tyr791)

Tested Reactivity Hu

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name EphA7
Species Human

Immunogen Phosphospecific peptide around Tyr791 of Human EphA7.

Conjugation Un-conjugated

Alternate Names EK11; hEK11; EPH homology kinase 3; EPH-like kinase 11; EHK3; EHK-3; Ephrin type-A receptor 7;

HEK11; EC 2.7.10.1

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol and 0.5% BSA

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol EPHA7

Gene Full Name EPH receptor A7

Background 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]

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 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

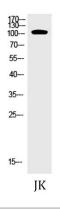
phosphorylated upon activation of EPHA7. [UniProt]

Calculated Mw 112 kDa

PTM Phosphorylated. [UniProt]

Cellular Localization Cell membrane; Single-pass type I membrane protein. [UniProt]

Images



ARG66572 anti-EphA7 phospho (Tyr791) antibody WB image

Western blot: JK cell lysate stained with ARG66572 anti-EphA7 phospho (Tyr791) antibody.