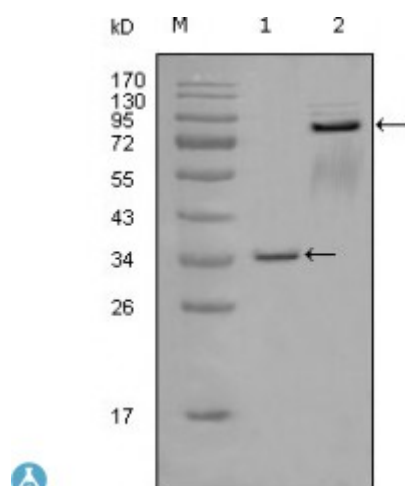


Anti-EphA7 antibody



Description	Mouse monoclonal to EphA7.
Model	STJ98029
Host	Mouse
Reactivity	Human
Applications	ELISA, IHC, WB
Immunogen	Purified recombinant fragment of EphA7 (aa27-210) expressed in E. Coli.
Immunogen Region	27-210aa
Gene ID	2045
Gene Symbol	EPHA7
Dilution range	WB 1:500-1:2000IHC 1:200-1:1000ELISA 1:10000
Specificity	EphA7 Monoclonal Antibody detects endogenous levels of EphA7 protein.
Tissue Specificity	Widely expressed.
Purification	Affinity purification
Clone ID	6C8G7
Note	For Research Use Only (RUO).
Protein Name	Ephrin type-A receptor 7 EPH homology kinase 3 EHK-3 EPH-like kinase 11 EK11 hEK11
Clonality	Monoclonal
Conjugation	Unconjugated

Isotype	IgG2b
Formulation	Ascitic fluid containing 0.03% sodium azide.
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:33900 MIM:602190
Alternative Names	Ephrin type-A receptor 7 EPH homology kinase 3 EHK-3 EPH-like kinase 11 EK11 hEK11
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.
Cellular Localization	Cell membrane
Post-translational Modifications	Phosphorylated.