

Anti-PI beta antibody



Description	Rabbit polyclonal to PIXbeta.
Model	STJ95106
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human PIXbeta
Immunogen Region	280-360 aa, Internal
Gene ID	8874
Gene Symbol	ARHGEF7
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:5000
Specificity	PIXbeta Polyclonal Antibody detects endogenous levels of PIXbeta protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Rho guanine nucleotide exchange factor 7 Beta-Pix COOL-1 PAK-interacting exchange factor beta p85
Molecular Weight	75-80 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:15607OMIM:605477
Alternative Names	Rho guanine nucleotide exchange factor 7 Beta-Pix COOL-1 PAK-interacting exchange factor beta p85
Function	Acts as a RAC1 guanine nucleotide exchange factor (GEF) and can induce membrane ruffling. Functions in cell migration, attachment and cell spreading. Promotes targeting of RAC1 to focal adhesions . May function as a positive regulator of apoptosis. Downstream of NMDA receptors and CaMKK-CaMK1 signaling cascade, promotes the formation of spines and synapses in hippocampal neurons.
Cellular Localization	Cell junction, focal adhesion Cell projection, ruffle Cytoplasm, cell cortex Cell projection, lamellipodium. Detected at cell adhesions. A small proportion is detected at focal adhesions.
Post-translational Modifications	Phosphorylated by PTK2/FAK1; this promotes interaction with RAC1 . Phosphorylated on Ser-694 by CaMK1; enhancement of GEF activity and downstream activation of RAC1.

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