

AB-PN687

ACP1-pY132+pY133 Antibody

Phosphosite-specific rabbit polyclonal antibody for ACP1



KINEXUS

Website: www.kinexus.ca

Email: info@kinexus.ca

Phone: 604-323-2547

Address: 8755 Ash Street, Suite 1

Vancouver, British Columbia,

Canada V6P 6T3

Target Protein

Protein Name Long:	Low molecular weight phosphotyrosine protein phosphatase
Protein Alias:	Acid phosphatase 1; Acid phosphatase 1, soluble; Adipocyte acid phosphatase; Lmwptp; LMW-PTP; LMW-PTPase; Low molecular weight cytosolic acid phosphatase; PPAC; PTPase; Red cell acid phosphatase 1
UniProt ID:	P24666
Protein Molecular Mass:	18,042 Da (158 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human ACP1
Antibody Immunogen Sequence:	EDP(pY)(pY)GND(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues E129 to D136. Y132 and Y133 phosphorylation stimulates phosphatase activity, and regulates cell adhesion, cell motility, and transcription. These are two major <i>in vivo</i> phosphorylation site in ACP1 (≥207 and >86 reports, respectively, by mass spectrometry in PhosphoSitePlus). These phosphosites are highly conserved and also found in yeast. ACP1 is known to be phosphorylated <i>in vitro</i> at Y132 by Lck, Src. Y133: Lck, and Src.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipеп peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.25 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Rat Mouse Platypus Chicken Frog Zebra fish Budding yeast

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987