

AB-PP527

CD45-pY1216 Antibody

Phosphosite-specific rabbit polyclonal antibody for CD45 (PTPRC). This phosphotyrosine-site antibody also cross-reacts with a phosphothreonine substitution of the phosphosite.

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Target Protein

Protein Name Long:	Receptor protein-tyrosine phosphatase CD45; Receptor-type tyrosine-protein phosphatase C
Protein Alias:	EC 3.1.3.48; GP180; LCA; L-CA; Leukocyte common antigen variant 4 precursor; LY-5; Lymphocyte common antigen Ly-5; Protein tyrosine phosphatase, receptor type, C; PTPRC; T200
UniProt ID:	P08575
Protein Molecular Mass:	147,254 Da (1,304 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human CD45
Antibody Immunogen Sequence:	FEQ(pY)QFL(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues F1213 to L1219. Y1216 phosphorylation stimulates phosphatase activity. Phosphorylation at this site has only be reported in a single mass spectrometry study. This human phosphosite is highly conserved in vertebrates and also found in fish. CD45 is known to be phosphorylated at this site <i>in vitro</i> by CSK.
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 multi-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:	0.6 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 Dog Rat Mouse Tiger blowfish

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