

AB-PN863

ACACA-pS80 Antibody

Phosphosite-specific rabbit polyclonal antibody for ACACA (ACC1; ACCA). This phosphotyrosine-site antibody also cross-reacts with phosphothreonine and phosphoserine substitutions of the phosphosite.

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Target Protein

Protein Name Long:	Acetyl-CoA carboxylase 1
Protein Alias:	ACAC; ACC; ACC1; ACCA; ACC-alpha; Acetyl-Coenzyme A carboxylase alpha; COA1
UniProt ID:	Q13085
Protein Molecular Mass:	265,554 Da (2,346 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human ACACA
Antibody Immunogen Sequence:	CSSM(pS)GLHL
Antibody Immunogen Description:	Corresponds to amino acid residues S77 to L84. S80 phosphorylation has been linked to inhibition of ACACA enzyme activity. It is one of the major <i>in vivo</i> phosphorylation sites in ACACA (≥ 86 mass spectrometry reports recorded in PhosphoSitePlus. ACACA is known to be phosphorylated at this site <i>in vitro</i> by AMPKa1 (PRKAA1), and AMPKa2 (PRKAA2).
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 μ g
Antibody Concentration:	0.4 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 Rhesus macaque Dog Rat Mouse Chicken Zebra fish

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