

AB-PN735

ACLY-pS455 Antibody

Phosphosite-specific rabbit polyclonal antibody for ACLY. This phosphoserine-site antibody also weakly cross-reacts with a phosphothreonine substitution in the phosphosite.

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Target Protein

Protein Name Long:	ATP-citrate synthase
Protein Alias:	ACL; ATP citrate lyase; ATP-citrate (pro-S-)-lyase; ATP-citrate lyase; ATPCL; Citrate cleavage enzyme; CLATP; EC 2.3.3.8
UniProt ID:	P53396
Protein Molecular Mass:	120,839 Da (1,101 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human ACLY
Antibody Immunogen Sequence:	RTA(pS)FSE(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues R452 to E458. The effect of S455 phosphorylation is unclear. This is the second most frequently phosphorylated site in ATP-citrate lyase in mass spectrometry studies (≥ 204 reports recorded in PhosphoSitePlus). This human phosphosite is highly conserved in vertebrates and is found in fish. ACLY is known to be phosphorylated at this site <i>in vitro</i> by Akt1 (PKBa), and Akt3 (PKBg).
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 multipепptide 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:	0.55 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 $+4^{\circ}\text{C}$ 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 Frog 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