

AB-PN736

ACO1-pS711 Antibody

Phosphosite-specific rabbit polyclonal antibody for ACO1 IREB1)



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Target Protein

Protein Name Long:	Cytoplasmic aconitate hydratase
Protein Alias:	Aconitase; Aconitate hydratase; Citrate hydro-lyase; EC 4.2.1.3; Ferritin repressor protein; IRE1; IRE-BP 1; IREBP1; Iron regulatory protein 1; IRP1
UniProt ID:	P21399
Protein Molecular Mass:	98,399 Da (889 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human ACO1
Antibody Immunogen Sequence:	SYG(pS)RRG(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues S708 to G714. S711 phosphorylation inhibits enzyme activity. This is phosphorylation site in ACO1 has been rarely detected by mass spectrometry (3 reports in PhosphositePlus). This human phosphosite is highly conserved in vertebrates and also found in yeast. ACO1 IREB1 is known to be phosphorylated at this site <i>in vitro</i> by PKCa (PRKCA).
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 μ g
Antibody Concentration:	0.5 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerosal
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 Platypus Chicken Zebra fish Fruit fly Thale cress

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

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