

AB-PN742

ATASE-pT356 Antibody

Phosphosite-specific rabbit polyclonal antibody for ATASE (PPAT). This phosphothreonine-site antibody also cross-reacts with phosphoserine and weakly with a phosphotyrosine substitution in the phosphosite.

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Target Protein

Protein Name Long:	Glutamine phosphoribosylpyrophosphate amidotransferase
Protein Alias:	Amidophosphoribosyltransferase; Glutamine phosphoribosylpyrophosphate amidotransferase; PPAT
UniProt ID:	Q06203
Protein Molecular Mass:	57,381 Da (517 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human ATASE
Antibody Immunogen Sequence:	VGR(pT)FIQ(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues V353 to Q359. The effect of T356 phosphorylation is unclear. Phosphorylation of this site in ATASE has been reported in only one mass spectrometry study. This human phosphosite is highly conserved in vertebrates and also found in yeast.
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 µg
Antibody Concentration:	0.75 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 Platypus Chicken Frog Zebra fish Fruit fly Honey bee Sea urchin Budding yeast

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

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