

AB-PN759

MAT1A-pT341 Antibody

Phosphosite-specific rabbit polyclonal antibody for MAT1A



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Target Protein

Protein Name Long:	S-adenosylmethionine synthase isoform type-1
Protein Alias:	Methionine adenosyltransferase 1;Methionine adenosyltransferase I/III
UniProt ID:	Q00266
Protein Molecular Mass:	43,648 Da (395 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human MAT1A
Antibody Immunogen Sequence:	SQK(pT)ERE(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues S338 to E344. The effect of T341 phosphorylation is unclear. Phosphorylation at this site in MAT1A has only been reported in one mass spectrometry study. This human phosphosite is highly conserved in vertebrates and also found in yeast. MAT1A 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 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:	0.75 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 Chicken Frog Zebra fish Sea urchin

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