

AB-PN738

ALOX5-pS272 Antibody

Phosphosite-specific rabbit polyclonal antibody for ALOX5 (5-LO). This phosphoserine-site antibody also cross-reacts with phosphothreonine, serine and glutamic acid substitutions in the phosphosite.

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Target Protein

Protein Name Long:	Arachidonate 5-lipoxygenase
Protein Alias:	5-LO
UniProt ID:	P09917
Protein Molecular Mass:	77,983 Da (673 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human ALOX5
Antibody Immunogen Sequence:	RQL(pS)LEQ(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues R269 to Q275. S272 phosphorylation stimulates enzymatic activity and import to the nucleus. This is a minor <i>in vivo</i> phosphorylation sites in ALOX5 (≥2 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is highly conserved in vertebrates and found in fish. ALOX5 is known to be phosphorylated at this site <i>in vitro</i> by CaMK2a, MAPKAPK2, and PKACa.
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 µg
Antibody Concentration:	0.6 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 Rhesus macaque Dog Rat Mouse

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