

AB-PN695

COX2-pY446 Antibody

Phosphosite-specific rabbit polyclonal antibody for COX2. This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	Prostaglandin G/H synthase 2
Protein Alias:	COX2; Cyclooxygenase-2; PGH synthase 2; PGH2; PGHS-2; PHS II; Prostaglandin G/H synthase 2; Prostaglandin G/H synthase and cyclooxygenase; Prostaglandin H2 synthase 2; Prostaglandin-endoperoxide synthase 2
UniProt ID:	P35354
Protein Molecular Mass:	68,996 Da (604 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human COX2
Antibody Immunogen Sequence:	(ac)QMK(pY)QSF(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues Q443 to F449. Y446 phosphorylation activates COX2 enzymatic activity. However, this phosphosite has been poorly detected in mass spectrometry studies (≥1 report by mass spectrometry). The phosphosite is commonly conserved in vertebrates and found in fish. COX2 is known to be phosphorylated at this site in vitro by Fyn.
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:	0.5 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 Rat Mouse Platypus 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