

AB-PN711

NOS2-pS745 Antibody

Phosphosite-specific rabbit polyclonal antibody for NOS2 (iNos). 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:	Nitric oxide synthase, inducible
Protein Alias:	EC 1.14.13.39; Hepatocyte NOS; HEP-NOS; Inducible; Inducible NOS; Nitric oxide synthase 2, inducible; NOS; NOS type II; NOS2A
UniProt ID:	P35228
Protein Molecular Mass:	131,117 Da (1,153 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human NOS2
Antibody Immunogen Sequence:	NLQ(pS)PTS(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues N742 to S748. S745 phosphorylation stimulates enzyme activity. This phosphorylation site appears to be poorly detected by mass spectrometry (≥ 1 report). This human phosphosite is highly conserved in vertebrates and found in the frog. NOS2 is known to be phosphorylated at this site <i>in vitro</i> by ERK1 (MAPK3), and ERK2 (MAPK1).
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 µg
Antibody Concentration:	0.45 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

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