

# AB-PN762

## NOS1-pS746 Antibody

Phosphosite-specific rabbit polyclonal antibody for NOS1 (nNos)



**KINEXUS**

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### Target Protein

<b>Protein Name Long:</b>	Nitric oxide synthase, brain
<b>Protein Alias:</b>	BNOS; Constitutive NOS; NC-NOS; Neuronal NOS; Nitric oxide synthase 1 (neuronal); Nitric-oxide synthase, brain; N-NOS; NOS; NOS, type I; NOS1
<b>UniProt ID:</b>	P29475
<b>Protein Molecular Mass:</b>	160,970 Da (1,434 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human NOS1
<b>Antibody Immunogen Sequence:</b>	CAVKF(pS)AKL
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues A742 to L749. S746 phosphorylation inhibits the enzymatic activity of NOS1. Phosphorylation of this site in NOS1 has not been reported by mass spectrometry. This human phosphosite is highly conserved in vertebrates and also found in the fruit fly. NOS1 is known to be phosphorylated at this site <i>in vitro</i> by CaMK1a.
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	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.
<b>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	0.25 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	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.
<b>Storage Stability:</b>	>2 years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Rhesus macaque   Dog   Rat   Mouse   Frog   Zebra fish   Fruit fly

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

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