

AB-PN780

TPH1-pT225+pS228 Antibody

Phosphosite-specific rabbit polyclonal antibody for TPH1. This phosphothreonine-site antibody is highly specific for phosphothreonine.

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Target Protein

Protein Name Long:	Tryptophan 5-hydroxylase 1
Protein Alias:	ALS2CR3; Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 3 protein; CALS-C; GRIF1; GRIF-1; KIAA0549; OIP98; Trafficking kinesin-binding 2; Trafficking protein, kinesin binding 2
UniProt ID:	P17752
Protein Molecular Mass:	101,419 Da (914 AA; O60296-1); 35,815 Da (311 AA; O60296-2)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human TPH1
Antibody Immunogen Sequence:	KER(pT)GF(pS)IRP(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues K222 to P231. The effects of T225 and S228 phosphorylation are unclear. These are minor sites of <i>in vivo</i> phosphorylation of TPH1 with only 1 mass spectrometry report for each site in PhosphoSitePlus. However, there are very few phosphosites in this protein and they are only reported once.
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 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.
Amount:	25 μ g
Antibody Concentration:	1 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 Tiger blowfish Fruit fly Nematode worm

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