

AB-PN828

HTT-pS417+pS419 Antibody

Phosphosite-specific rabbit polyclonal antibody for Huntingtin (HTT). This phosphoserine-site antibody also cross-reacts with phosphothreonine and glutamic acid substitutions in the phosphosite.

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Target Protein

Protein Name Long:	Huntingtin
Protein Alias:	HD; HD protein; HDH; Huntington's disease protein; Huntington's disease protein homolog; IT15; NT17
UniProt ID:	P42858
Protein Molecular Mass:	347,860 Da (3,144 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human HTT
Antibody Immunogen Sequence:	CGGR(pS)R(pS)GSI
Antibody Immunogen Description:	Corresponds to amino acid residues G414 to I422. The effect of phosphorylation of S417 is unclear. S419 phosphorylation stimulates activity, and induces interactions with KIF5B and dynactin 1. These are two of the more prominent <i>in vivo</i> phosphorylation sites in HTT (≥ 17 and ≥ 52 mass spectrometry reports, respectively, recorded in PhosphoSitePlus). Huntingtin is known to be phosphorylated <i>in vitro</i> at S419 by Akt1 (PKBa), Akt3 (PKBg), and SGK1.
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 μ g
Antibody Concentration:	0.8 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 $+4^{\circ}\text{C}$ 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 Chicken Zebra fish Tiger blowfish

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