

AB-PN558

MBP-pT232 Antibody

Phosphosite-specific rabbit polyclonal antibody for MBP. This phospho-threonine-site antibody is highly specific for phosphothreonine in the phosphosite.

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Target Protein

Protein Name Long:	Myelin basic protein; Myelin A1 protein
Protein Alias:	Myelin A1 protein; Myelin membrane encephalitogenic protein
UniProt ID:	P02686
Protein Molecular Mass:	33,117 Da (304 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human MBP
Antibody Immunogen Sequence:	VTPR(pT)PPP(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues V228 to P235. The effect of T232 phosphorylation is unclear. This is one of the less major <i>in vivo</i> phosphorylation sites in myelin basic protein (≥ 19 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). MBP is known to be phosphorylated at this site <i>in vitro</i> by CDK9, 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 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:	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 $+4^{\circ}\text{C}$ 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 Rat Mouse Chicken Frog

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