AB-PN858

Tau-pS713 Antibody

Phosphosite-specific rabbit polyclonal antibody for Tau (MAPT). This phosphoserine-site antibody also cross-reacts with phosphothreonine, serine, threonine and glutamic acid substitutions in the phosphosite.

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Target Protein

Protein Name Long:	Microtubule-associated protein tau
Protein Alias:	DDPAC; FLJ31424; FTDP-17; G protein beta1/gamma2 subunit-interacting factor 1; MAPT; MAPTL; MGC138549; Microtubule-associated protein tau, isoform 4; MSTD; MTBT1; MTBT2; Neurofibrillary tangle protein; Paired helical filament-tau; PHF-tau; PPND; TAU; Tau
UniProt ID:	P10636
Protein Molecular Mass:	78,928 Da (758 AA; P10636-1); 36,760 Da (352 AA; P10636-2); 32,944 Da (316 AA; P10636-3); 39,720 Da (381 AA; P10636-4); 42,603 Da (410 AA; P10636-5); 40,007 Da (383 AA; P10636-6); 42,967 Da (412 AA; P10636-7); 45,850 Da (441 AA; P10636-8); 80,941 Da (776 AA; P10636-9);

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human Tau
Antibody Immunogen Sequence:	VYK(pS)PVVSC
Antibody Immunogen Description:	Corresponds to amino acid residues V710 to S717. The effect of Tau S713 phosphorylation is unclear. This is a major *in vivo* phosphorylation site based on ≥139 mass spectrometry reports recorded in PhosphoSitePlus. Tau is known to be phosphorylated at this site *in vitro* by CDK5, CK1d1 (CSNK1D), and TTBK1.
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 multipep 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:	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