

# AB-PN857

## Tau-pT529+pT534 (pT212+pT217) Antibody

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

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### Target Protein

<b>Protein Name Long:</b>	Microtubule-associated protein tau
<b>Protein Alias:</b>	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
<b>UniProt ID:</b>	P10636
<b>Protein Molecular Mass:</b>	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

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human Tau
<b>Antibody Immunogen Sequence:</b>	C(βA)RSR(pT)PSLP(pT)PP
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues R526 to P531. The effects of Tau T529 and T534 phosphorylation are unclear. These are major <i>in vivo</i> phosphorylation sites based on ≥22, and 46 mass spectrometry reports, respectively, in PhosphoSitePlus. Tau is known to be phosphorylated <i>in vitro</i> at T529 by BRSK1, BRSK2, CDK5, GSK3b, and at T534 by CDK5, and GSK3b.
<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 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.
<b>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	0.75 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
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## 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   Chimpanzee   Dog   Rat   Mouse   Platypus   Chicken

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