

AB-PK955

TTBK1-pT202 Antibody

Phosphosite-specific rabbit polyclonal antibody for TTBK1. This phosphothreonine-site antibody is highly specific for phosphothreonine in the phosphosite.

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Target Protein

Protein Name Long:	Tau-tubulin kinase 1
Protein Alias:	Brain-derived tau kinase
UniProt ID:	Q5TCY1
Protein Molecular Mass:	142,737 Da (1,321 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human TTBK1
Antibody Immunogen Sequence:	CGFRG(pT)VR YA
Antibody Immunogen Description:	Corresponds to amino acid residues G198 to A206. The effect of T202 phosphorylation is unclear, but this is located in the extra long activation loop in TTBK1 between subdomains VII (DGF) and VIII (GPE). Phosphorylation of this site has not been reported by mass spectrometry in PhosphoSitePlus. The site is highly conserved in animals, including sea urchin. The phosphosite sequence is also found in human TTBK2 surrounding T189.
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:	0.45 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 Mouse

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