

AB-PN915

TUBA4A-pY103 Antibody

Phosphosite-specific rabbit polyclonal antibody for TUBA4A



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Target Protein

Protein Name Long:	Tubulin alpha-4A chain
Protein Alias:	Alpha-tubulin 1; FLJ30169; H2-ALPHA; TBA1; TBA1A; TBA4A; Testis-specific alpha- tubulin; TUBA1; Tubulin alpha-1 chain; Tubulin H2-alpha; Tubulin, alpha 4a; Tubulin, alpha-4A
UniProt ID:	P68366
Protein Molecular Mass:	49,924 Da (448 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human TUBA4A
Antibody Immunogen Sequence:	CAANN(pY)ARG
Antibody Immunogen Description:	Corresponds to amino acid residues A99 to G106. The effect of Y103 phosphorylation is unclear. This is a major site of <i>in vivo</i> phosphorylation of alpha-tubulin based on ≥596 mass spectrometry reports recorded in PhosphoSitePlus.
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 µg
Antibody Concentration:	0.35 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 Zebra fish Fruit fly Sea urchin

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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