




Product datasheet

HRP Anti-alpha Tubulin antibody ab106043

1 References

Overview

Product name	HRP Anti-alpha Tubulin antibody
Description	HRP Rabbit polyclonal to alpha Tubulin
Host species	Rabbit
Conjugation	HRP
Specificity	Cross reactivity will occur with all isoforms of alpha tubulin.
Tested applications	Suitable for: ELISA, WB
Species reactivity	Reacts with: Human Predicted to work with: a wide range of other species 
Immunogen	Synthetic peptide: ALEKDYEEVGVDSVE , corresponding to amino acids 427-441 of Human alpha Tubulin.  Run BLAST with  Run BLAST with
General notes	Do NOT add Sodium Azide! The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.01% Gentamicin sulphate Constituents: 0.42% Potassium phosphate, 0.88% Sodium chloride, 1% BSA BSA is Immunoglobulin and Protease free
Purity	Immunogen affinity purified

Purification notes	ab106043 was affinity purified from monospecific antiserum by immunoaffinity purification.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab106043 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.

Target

Function	Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain.
Sequence similarities	Belongs to the tubulin family.
Post-translational modifications	Some glutamate residues at the C-terminus are polyglutamylated. This modification occurs exclusively on glutamate residues and results in polyglutamate chains on the gamma-carboxyl group. Also monoglycylated but not polyglycylated due to the absence of functional TTLL10 in human. Monoglycylation is mainly limited to tubulin incorporated into axonemes (cilia and flagella) whereas glutamylation is prevalent in neuronal cells, centrioles, axonemes, and the mitotic spindle. Both modifications can coexist on the same protein on adjacent residues, and lowering glycylation levels increases polyglutamylated, and reciprocally. The precise function of such modifications is still unclear but they regulate the assembly and dynamics of axonemal microtubules. Acetylation of alpha chains at Lys-40 stabilizes microtubules and affects affinity and processivity of microtubule motors. This modification has a role in multiple cellular functions, ranging from cell motility, cell cycle progression or cell differentiation to intracellular trafficking and signaling.
Cellular localization	Cytoplasm > cytoskeleton.

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