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Product datasheet for AP07868PU-N

Tubulin (TUBA1B) (427-441) (Loading Control) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	**ELISA:** 1/5000 - 1/25000. **Immunofluorescence**. **Immunohistochemistry on Paraffin Sections:** 2.5 µg/ml. **Western Blot:** 1/500 - 1/3000.
Reactivity:	Human, Bovine, Chicken, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to Amino acids 427-441 of Human alpha Tubulin.
Specificity:	This antibody makes an excellent Loading Control.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% (w/v) Sodium Azide as preservative. State: Aff - Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Dilute only prior to immediate use. Avoid cycles of freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	tubulin alpha 1b
Database Link:	Entrez Gene 22143 MouseEntrez Gene 500929 RatEntrez Gene 10376 Human P68363

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Background: Microtubules are involved in a wide variety of cellular activities ranging from mitosis and transport events to cell movement and the maintenance of cell shape. Tubulin itself is a globular protein consisting of two polypeptides (alpha and beta tubulin). Alpha and beta tubulin dimers are assembled to 13 protofilaments that form a microtubule of 22-nm diameter. Tyrosine ligase adds a C-terminal tyrosine to monomeric alpha tubulin. Assembled microtubules can again be detyrosinated by a cytoskeleton-associated carboxypeptidase. Detyrosinated alpha tubulin is referred to as Glu-tubulin. Another post-translational modification of detyrosinated alpha tubulin is C-terminal polyglutamylation, which is characteristic of microtubules in neuronal cells and the mitotic spindle.

Synonyms: Tubulin alpha-1B chain, Tubulin alpha-ubiquitous chain, Alpha-tubulin ubiquitous, Tubulin K-alpha-1

Protein Families: Druggable Genome

Protein Pathways: Gap junction, Pathogenic Escherichia coli infection

Product images:

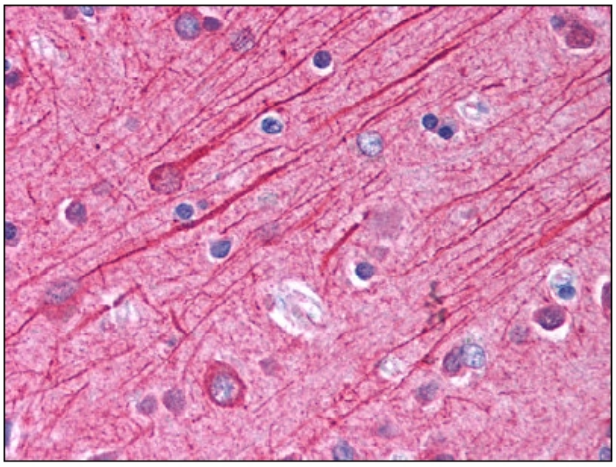

Figure 1. Staining Tubulin alpha in Brain, cortex by Immunohistochemistry using Formalin-Fixed Paraffin-Embedded (FFPE) tissue.