

Datasheet for 600-401-Y07**Alpha-Tubulin Antibody****Overview**

Description:	Anti-Alpha-Tubulin (RABBIT) Antibody - 600-401-Y07
Item No.:	600-401-Y07
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Alpha-tubulin belongs to the tubulin superfamily, which is composed of six distinct families. Along with beta-tubulins, alpha-tubulins are the major components of microtubules. These 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. 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. Another post-translational modification of detyrosinated alpha-tubulin is C-terminal polyglutamylation, which is characteristic of microtubules in neuronal cells and the mitotic spindle. Like GAPDH and beta-Actin, this antibody makes an excellent loading control in immunoblots.
Synonyms:	Alpha-tubulin Antibody, TUBA2, bA408E5.3, TUBA2, TUBA3D, Alpha-tubulin 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TUBA3C
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Alpha-tubulin antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the N-terminus of human alpha-tubulin
Purity/Specificity:	Anti-Alpha-tubulin antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Alpha-tubulin antibody is human, mouse and rat reactive.
Relevant Links:	• UniProtKB - P0DPH7 • GeneID - 7278 • NCBI - NP_005992

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Alpha-tubulin Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 50 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000-1:10000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	0.5 - 1 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

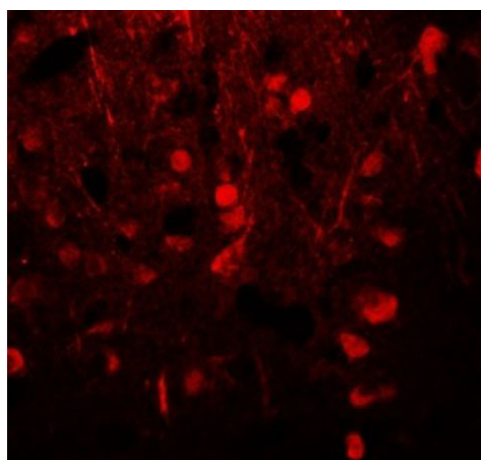
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images

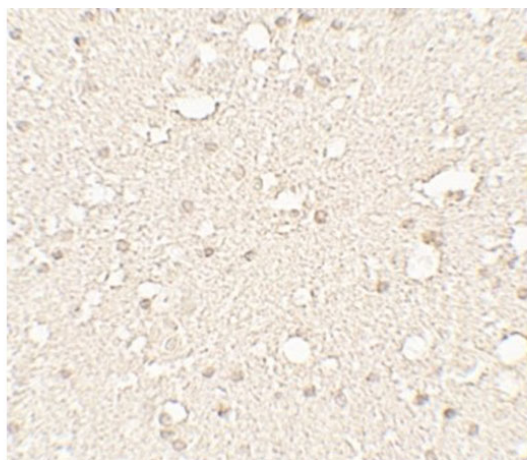


Immunofluorescence Microscopy

Immunofluorescence of Alpha-tubulin.

Tissue: human brain tissue.

Primary Antibody: Alpha-tubulin antibody at 20 µg/mL.

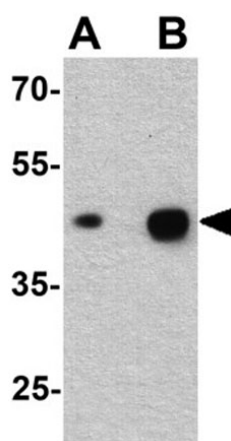


Immunohistochemistry

Immunohistochemistry of Alpha-tubulin.

Tissue: human brain tissue.

Primary Antibody: Alpha-tubulin antibody at 5 µg/mL.

**Western Blot**

Western blot of alpha-tubulin.

Load: human brain tissue lysate.

Primary Antibody: alpha-tubulin antibody at (A) 0.25 and (B) 0.5 µg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.