



Product Specification Sheet

Tubulin alpha Antibody

- Cat# TUBA111-A
 Cat# TUBA111--P

Rabbit anti-Arabidopsis Thaliana Tubulin alpha-1 chain
Control/Blocking Peptide for Tubulin alpha-1 chain antibody

SIZE: 100 ug
SIZE: 500 ug

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.

Source of Antigen or Antibodies

Uniprot: P11139

Host: Rabbit

Form: Polyclonal, affinity purified over a peptide column

Immunogen: Synthetic peptide derived from Arabidopsis Thaliana tubulin alpha-1 C terminal conjugated to KLH

Species Reactivity: Arabidopsis Thaliana

Cross reactivity: 86% Quercus suber, 88% Camelinea sativa, 91% Apostasia shenzhenica, 90% Vitis vinifera, 90% Rosa chinensis, 90% Rinicus communis, 90% Populus tremuloides, 86% Ananas comosus, Juglan regia, Plantago major, Asparagus officinalis, Panax notoginseng, Ziziphus jujubam Cephalous follicularis, Theobroma cacao, Salix arbutifolia, Durio zibethinus, Betula pendula, Camellia sinesis, Macleaya cordata, Quercus suber, Zoster marina, Brassica napus and more. If your species of interest is not listed above contact ADI to perform a blast

Subcellular Location: Cytoskeleton

Subunit structure: Dimer of alpha and beta chains. A typical microtubule is a hollow water-filled tube with an outer diameter of 25 nm and an inner diameter of 15 nm. Alpha-beta heterodimers associate head-to-tail to form protofilaments running lengthwise along the microtubule wall with the beta-tubulin subunit facing the microtubule plus end conferring a structural polarity. Microtubules usually have 13 protofilaments but different protofilament numbers can be found in some organisms and specialized cells.

Sequence: Length: 450 amino acids
Mass (Da): 49,800

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP

Negative Control: Non immune Rabbit IgG (**ADI cat# 20009-1**). Blocking peptide (**ADI cat# TUBA111-P**), use 5-10 ug of control peptide per 1 ug of affinity pure antibody or 1 ul antiserum to confirm specificity.

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

_____ ul solution; Concentration: _____
Supplied in PBS+0.1% sodium azide

Lyophilized powder

Reconstitute powder in 200 ul PBS to 0.5 mg/ml

Control/blocking peptide

500 ug/500 ul solution lyophilized powder

Reconstitute powder in PBS at 1 mg/ml.

Storage:

Short-term: 4°C for 1 month

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions.

Recommended Usage

Western Blotting: 0.5-2 ug/ml using affinity pure.

Predicted band size: 49.8 kDa

Observed band size: ~50 kDa

Immunofluorescence: Has not been tested in IF. We suggest a starting concentration of 1-5 ug/ml.

**This product is for In vitro research use only.*

Related materials available from ADI

Catalog#	Description
AB-23254-A	Rabbit Anti-Arabidopsis thaliana NO-associated protein 1, chloroplastic/mitochondrial (NOA1) IgG (aff pure)
GLN111-A	Rabbit anti Arabidopsis thaliana Glutamine synthetase cytosolic isoenzyme 1-1 (GLN1-1) IgG, affinity pure
ASB11-A	Rabbit anti Arabidopsis thaliana ATP synthase subunit beta-1, mitochondrial IgG, affinity pure
RBCL11-A	Rabbit anti Arabidopsis thaliana Ribulose biphosphate carboxylase (RuBisCO) IgG, affinity pure
CLAT11-A	Rabbit anti Arabidopsis thaliana Catalase-1 (Cat-1) IgG, affinity pure
JAR11-A	Rabbit anti Arabidopsis thaliana Jasmonic acid-amido synthetase (JAR1) IgG, affinity pure
PMYO11-A	Rabbit anti Arabidopsis thaliana Myosin 1 IgG, affinity pure
POL111-A	Rabbit anti Arabidopsis thaliana Polymerase Gamma 1 IgG, affinity pure
POL211-A	Rabbit anti Arabidopsis thaliana Polymerase Gamma 2 IgG, affinity pure
PSBS11-A	Rabbit anti-Arabidopsis Thaliana Photosystem II 22 kDa protein, chloroplastic (PSBS) IgG, affinity pure
PACT11-A	Rabbit anti Arabidopsis thaliana Actin-1 (ACT1) IgG, affinity purified
TUBA111-A	Rabbit anti Arabidopsis thaliana Tubulin alpha-1 chain (TUBA1) IgG, affinity purified
TUBB211-A	Rabbit anti Arabidopsis thaliana Tubulin beta-2 chain (TUBB2) IgG, affinity purified
RBCL21-A	Rabbit anti Arabidopsis thaliana Ribulose biphosphate carboxylase large chain (RuBisCO) IgG, affinity pure

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