

Product Specification Sheet

Tubulin beta Antibody

- Cat# TUBB211-A
 Cat# TUBA211--P

Rabbit anti-Arabidopsis Thaliana Tubulin beta chain
 Control/Blocking Peptide for Tubulin beta 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: Q56YW9

Host: Rabbit

Form: Polyclonal, affinity purified over a peptide column

Immunogen: Synthetic peptide derived from Arabidopsis Thaliana tubulin beta chain conjugated to KLH

Species Reactivity: Arabidopsis Thaliana

Cross reactivity: Immunogen of this antibody has 100% homology with most plants.

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): 50,734

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP

Negative Control: Non immune Rabbit IgG (**ADI cat# 20009-1**). Blocking peptide (**ADI cat# TUBB211-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: 50.7 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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