Rabbit Tubulin beta Polyclonal Antibody | anti-TUBB1 antibody

Anti-Tubulin beta Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125748	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

Tubulin beta; Polyclonal Antibody; Anti-Tubulin beta Antibody; TUBA1C; TUBA6; Tubulin alpha-1C chain; Alpha-tubulin 6; Tubulin alpha-6 chain [Cleaved into: Detyrosinated tubulin alpha-1C chain]; tubulin beta 1 class VI; anti-TUBB1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Tubulin beta detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-TUBB1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Tubulin beta recombinant protein (Position: A18-D435).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

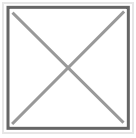
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FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of Hela cells using anti-Tubulin beta antibody (AAA125748).Overlay histogram showing Hela cells stained with AAA125748 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Tubulin beta Antibody (AAA125748,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)
Figure 2. IF analysis of Tubulin beta using anti-Tubulin beta antibody (AAA125748).Tubulin beta was detected in immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti-Tubulin beta Antibody (AAA125748) overnight at 4 degree C. DyLight®594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)
Figure 1. Western blot analysis of Tubulin beta using anti-Tubulin beta antibody (AAA125748).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human Hela whole cell lysatesLane 2: human THP-1 whole cell lysatesLane 3: rat brain tissue lysatesLane 4: mouse brain tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-Tubulin beta antigen affinity purified polyclonal antibody (Catalog # AAA125748) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Tubulin beta at approximately 50KD. The expected band size for Tubulin beta is at 50KD.

ADDITIONAL INFORMATION

Related Product Information for anti-TUBB1 antibody	TUBB1 is a gene that codes for the protein Tubulin beta-1 chain in humans. This gene encodes a member of the beta tubulin protein family. Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. This protein is specifically expressed in platelets and megakaryocytes and may be involved in proplatelet production and platelet release. A mutations in this gene is associated with autosomal dominant macrothrombocytopenia. Two pseudogenes of this gene are found on chromosome Y.
References	1. Davis, B., Toivio-Kinnucan, M., Schuller, S., Boudreaux, M. K. Mutation in beta-1-tubulin correlates with macrothrombocytopenia in Cavalier King Charles Spaniels. J. Vet. Intern. Med. 22: 540-545, 2008. 2. Freson, K., De Vos, R., Wittevrongel, C., Thys, C., Defoor, J., Vanhees, L., Vermylen, J., Peerlinck, K., Van Geet, C. The TUBB1 Q43P functional polymorphism reduces the risk of cardiovascular disease in men by modulating platelet function and structure. Blood 106: 2356-2362, 2005. 3. Kunishima, S., Kobayashi, R., Itoh, T. J., Hamaguchi, M., Saito, H. Mutation of the beta-1-tubulin gene associated with congenital macrothrombocytopenia affecting microtubule assembly. Blood 113: 458-461, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13562114
NCBI GeneID	81027
NCBI Accession #	NP_110400
NCBI GenBank Nucleotide #	NM_030773
UniProt Accession #	Q9H4B7
Molecular Weight	50,327 Da
NCBI Official Full Name	tubulin beta-1 chain
NCBI Official Synonym Full Names	tubulin, beta 1 class VI
NCBI Official Symbol	TUBB1
NCBI Protein Information	tubulin beta-1 chain; beta tubulin 1, class VI; class VI beta-tubulin
UniProt Protein Name	Tubulin beta-1 chain
UniProt Gene Name	**TUBB1**
UniProt Entry Name	TBB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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