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TBB5 Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AM1031A

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	P07437
Other Accession	P09244, Q91575, P69897, Q767L7, P99024, P69893, Q2KJD0
Reactivity	Human, Mouse, Rat
Predicted	Rat, Hamster, Pig, Chicken, Bovine, Xenopus, Canine, Rabbit
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b,Igκ
Clone Names	87CT59.3.7
Calculated MW	49671

Additional Information

Gene ID	203068
Other Names	Tubulin beta chain, Tubulin beta-5 chain, TUBB, TUBB5
Target/Specificity	TBB5 recombinant protein is used to produce this monoclonal antibody.
Dilution	WB~~1:100~500 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TBB5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

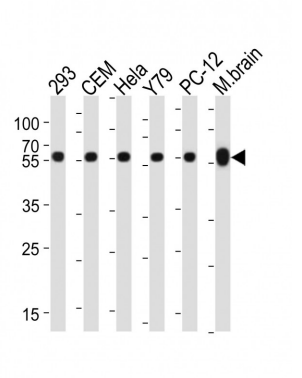
Name	TUBB
Synonyms	TUBB5
Function	Tubulin is the major constituent of microtubules, a cylinder consisting of laterally associated linear protofilaments composed of alpha- and beta-tubulin heterodimers. Microtubules grow by the addition of GTP-tubulin

	dimers to the microtubule end, where a stabilizing cap forms. Below the cap, tubulin dimers are in GDP-bound state, owing to GTPase activity of alpha-tubulin.
Cellular Location	Cytoplasm, cytoskeleton
Tissue Location	Ubiquitously expressed with highest levels in spleen, thymus and immature brain.

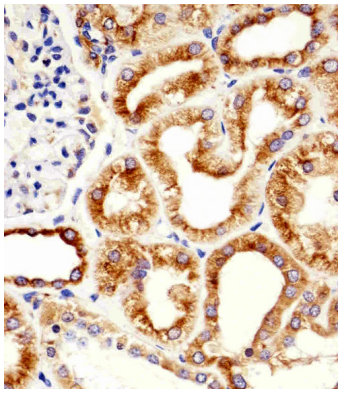
References

An approach based on a genome-wide association study reveals candidate loci for narcolepsy. Shimada M, et al. Hum Genet, 2010 Oct. PMID 20677014. High-density SNP screening of the major histocompatibility complex in systemic lupus erythematosus demonstrates strong evidence for independent susceptibility regions. Barcellos LF, et al. PLoS Genet, 2009 Oct. PMID 19851445. Proteome analysis of schizophrenia patients Wernicke's area reveals an energy metabolism dysregulation. Martins-de-Souza D, et al. BMC Psychiatry, 2009 Apr 30. PMID 19405953. Identification of interaction partners for individual SH3 domains of Fas ligand associated members of the PCH protein family in T lymphocytes. Linkermann A, et al. Biochim Biophys Acta, 2009 Feb. PMID 19041431. Alterations in oligodendrocyte proteins, calcium homeostasis and new potential markers in schizophrenia anterior temporal lobe are revealed by shotgun proteome analysis. Martins-de-Souza D, et al. J Neural Transm, 2009 Mar. PMID 19034380.

Images

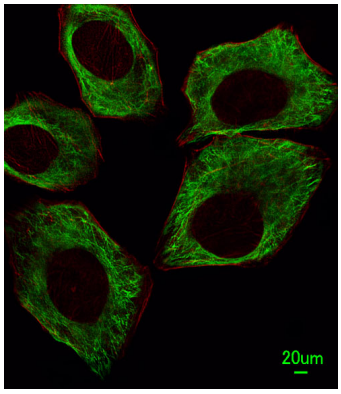


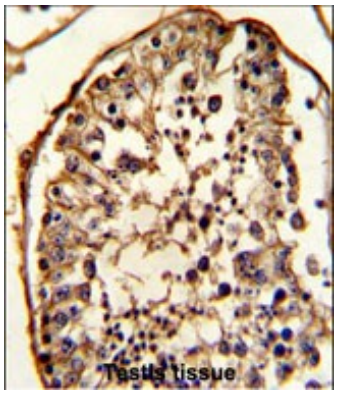
Western blot analysis of lysates from 293, CEM, Hela, Y79, rat PC-12 cell line, mouse brain tissue lysate(from left to right), using TBB5 Antibody(Cat. #AM1031a). AM1031a was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20µg per lane.



Immunohistochemical analysis of paraffin-embedded H.kidney section using TBB5 Antibody(Cat#AM1031a). AM1031a was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

Immunofluorescent analysis of A549 cells, using TBB5 Antibody (Cat. #AM1031a). AM1031a was diluted at 1:25 dilution. Dylight Fluor 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Dylight Fluor® 554 (red) conjugated Phalloidin (red).





Formalin-fixed and paraffin-embedded human testis reacted with TBB5 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Citations

- Light pollution during pregnancy influences the growth of offspring in rats
- Cadmium exposure activates mitophagy through downregulating thyroid hormone receptor/PGC1α signal in preeclampsia
- Short-Term Starvation Weakens the Efficacy of Cell Cycle Specific Chemotherapy Drugs through G1 Arrest
- Identification of molecular markers for superior quantitative traits in a novel sea cucumber strain by comparative microRNA-mRNA expression profiling
- Src-mediated phosphorylation of GAPDH regulates its nuclear localization and cellular response to DNA damage
- Asymmetrical arginine dimethylation of histone H4 by 8-oxog/OGG1/PRMT1 is essential for oxidative stress-induced transcription activation
- Symmetrical dimethylation of H4R3: A bridge linking DNA damage and repair upon oxidative stress
- A Novel Mechanism of Doxorubicin Resistance and Tumorigenesis Mediated by MicroRNA-501-5p-Suppressed BLID.
- TLR4-mediated activation of the ERK pathway following UVA irradiation contributes to increased cytokine and MMP expression in senescent human dermal fibroblasts.
- Wnt pathway is involved in 5-FU drug resistance of colorectal cancer cells.
- Obesity-induced overexpression of miRNA-24 regulates cholesterol uptake and lipid metabolism by targeting SR-B1.
- OGG1 regulates the level of symmetric dimethylation of histone H4 arginine-3 by interacting with PRMT5.
- OGG1 is essential in oxidative stress induced DNA demethylation.
- The adaptor protein GIPC1 stabilizes the scavenger receptor SR-B1 and increases its cholesterol uptake
- Small-molecule inhibition of APE1 induces apoptosis, pyroptosis, and necroptosis in non-small cell lung cancer
- Integrating network pharmacology, UPLC-Q-TOF-MS and molecular docking to investigate the effect and mechanism of Chuanxiong Renshen decoction against Alzheimer's disease
- A Specific microRNA Targets an Elongase of Very Long Chain Fatty Acids to Regulate Fatty Acid Composition and Mitochondrial Morphology of Skeletal Muscle Cells
- β2-Microglobulin Maintains Glioblastoma Stem Cells and Induces M2-like Polarization of Tumor-Associated Macrophages
- Corrigendum to "Korean red ginseng extract ameliorates melanogenesis in humans and induces anti-photo aging effects in ultraviolet B-irradiated hairless mice" [J Ginseng Res 44 (2020) 496-505]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.