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TBB5 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AW5051

Specification

TBB5 Antibody - Product Information

Application	**IF, WB, IHC-P,E**
Primary Accession	P07437
Other Accession	P09244, Q91575, P69897, Q767L7, P99024, P69893, Q2KJD0
Reactivity	**Human, Mouse, Rat**
Predicted	**Bovine, Hamster, Pig, Xenopus, Chicken**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**H=50;M=50;Rat=50 KDa**
Isotype	**IgG2b,κ**
Antigen Source	**HUMAN**

TBB5 Antibody - Additional Information

Gene ID 203068

Antigen Region
1-219

Other Names
TUBB; TUBB5; Tubulin beta chain; Tubulin beta-5 chain

Dilution
IF~~1:25
WB~~1:1000
IHC-P~~1:10~50

Target/Specificity
TBB5 recombinant protein is used to produce this monoclonal antibody.

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.

TBB5 Antibody - 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

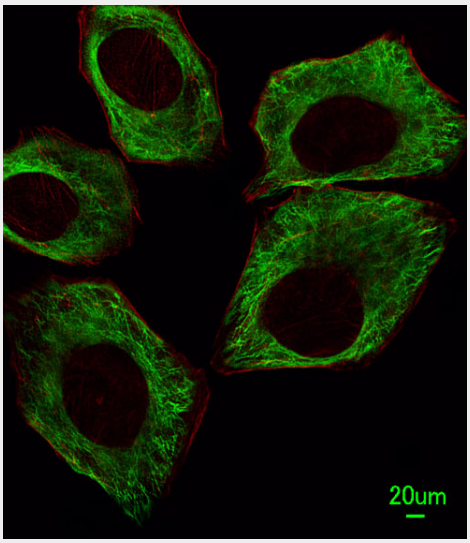
Tissue Location
Ubiquitously expressed with highest levels in spleen, thymus and immature brain.

TBB5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

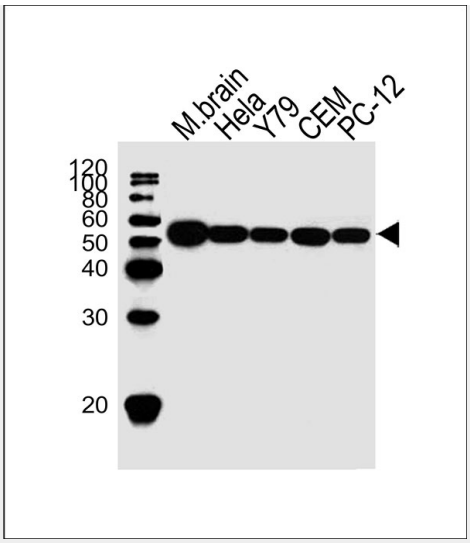
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TBB5 Antibody - Images

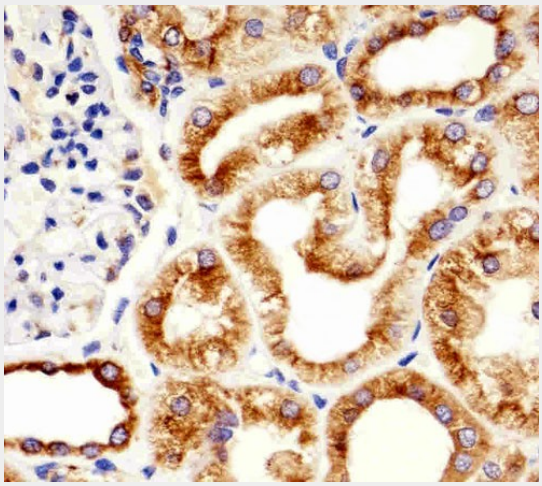


Immunofluorescent analysis of A549 cells, using TBB5 Antibody (Cat. #AW5051). AW5051 was diluted at 1□25 dilution. Dylight Fluor 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Dylight Fluor® 554 (red) conjugated Phalloidin (red).

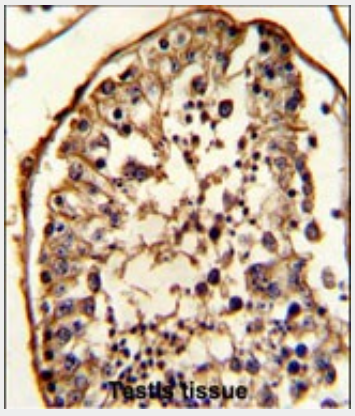
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Western blot analysis of lysates from mouse brain tissue, Hela,Y79,CEM,rat PC-12 cell line (from left to right), using TBB5 Antibody(Cat. #AW5051). AW5051 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded H.kidney section using TBB5 Antibody(Cat#AW5051). AW5051 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.



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.

TBB5 Antibody - 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.