10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TUBA1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant TUBA1.
Catalog # AT4397a

Product Information

Application	WB, IHC, IF, E
Primary Accession	P68366
Other Accession	BC009238
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b kappa
Clone Names	2E12
Calculated MW	49924

Additional Information

Gene ID	7277
Other Names	Tubulin alpha-4A chain, Alpha-tubulin 1, Testis-specific alpha-tubulin, Tubulin H2-alpha, Tubulin alpha-1 chain, TUBA4A, TUBA1
Target/Specificity	TUBA1 (AAH09238, 1 a.a. ~ 448 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TUBA1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

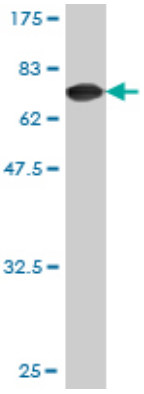
Background

Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulin. The genes encoding these microtubule constituents are part of the tubulin superfamily, which is composed of six distinct families. Genes from the alpha, beta and gamma tubulin families are found in all eukaryotes. The alpha and beta tubulins represent the major components of microtubules, while gamma tubulin plays a critical role in the nucleation of microtubule assembly. There are multiple alpha and beta tubulin genes and they are highly conserved among and between species. This gene encodes an alpha tubulin that is a highly conserved homolog of a rat testis-specific alpha tubulin.

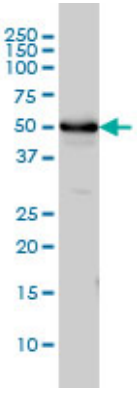
References

The role of height-associated loci identified in genome wide association studies in the determination of pediatric stature. Zhao J, et al. BMC Med Genet, 2010 Jun 14. PMID 20546612.Many sequence variants affecting diversity of adult human height. Gudbjartsson DF, et al. Nat Genet, 2008 May. PMID 18391951.Dynamic profiling of the post-translational modifications and interaction partners of epidermal growth factor receptor signaling after stimulation by epidermal growth factor using Extended Range Proteomic Analysis (ERPA). Wu SL, et al. Mol Cell Proteomics, 2006 Sep. PMID 16799092.The PITSLRE/CDK11p58 protein kinase promotes centrosome maturation and bipolar spindle formation. Petretti C, et al. EMBO Rep, 2006 Apr. PMID 16462731.Inhibitory effect of HIV-1 Tat protein on the sodium-D-glucose symporter of human intestinal epithelial cells. Canani RB, et al. AIDS, 2006 Jan 2. PMID 16327313.

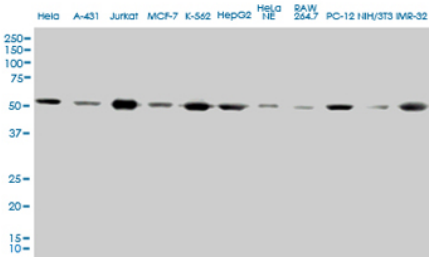
Images



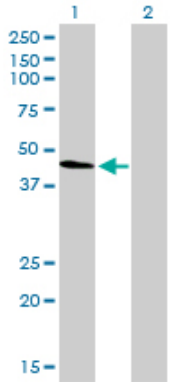
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (75.02 KDa) .



TUBA1 monoclonal antibody (M01), clone 2E11. Western Blot analysis of TUBA1 expression in HeLa.

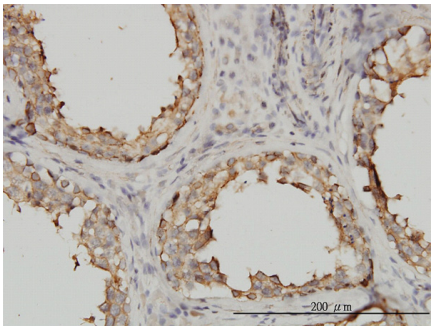


TUBA1 monoclonal antibody (M01), clone 2E11. Western Blot analysis of TUBA1 expression in different Cell lines and Human Tissue.

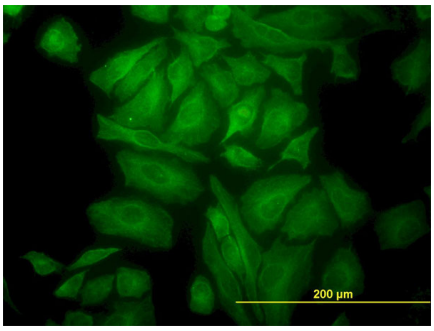


Western Blot analysis of TUBA1 expression in transfected 293T cell line by TUBA1 monoclonal antibody (M01), clone 2E11.

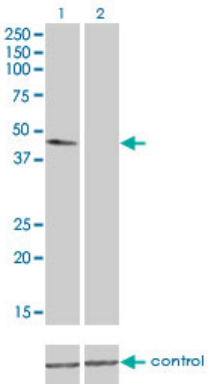
Lane 1: TUBA1 transfected lysate(49.9 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to TUBA1 on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to TUBA1 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged TUBA1 is approximately 1ng/ml as a capture antibody.

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