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TUBA2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant TUBA2.
Catalog # AT4399a

Specification

TUBA2 Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, IHC, E**
Primary Accession	Q13748
Other Accession	BC011721
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 kappa**

TUBA2 Antibody (monoclonal) (M01) - Additional Information

Other Names
Tubulin alpha-3C/D chain, Alpha-tubulin 2, Alpha-tubulin 3C/D, Tubulin alpha-2 chain, TUBA3C, TUBA2

Target/Specificity
TUBA2 (AAH11721.1, 1 a.a. ~ 418 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

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
TUBA2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

TUBA2 Antibody (monoclonal) (M01) - 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

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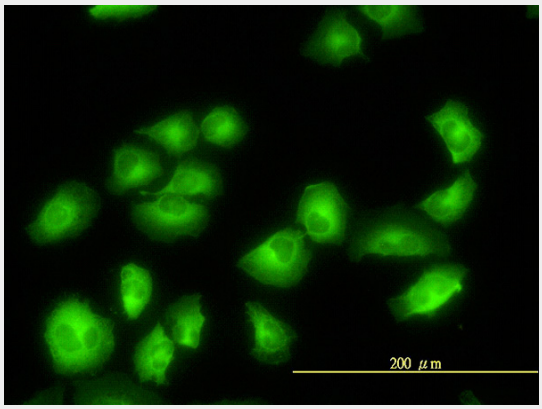
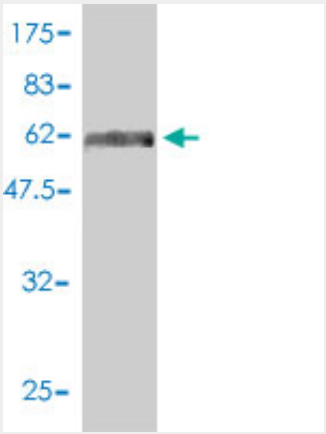
- Cell Culture

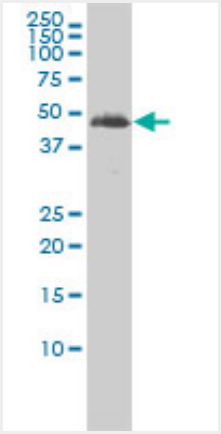
TUBA2 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to TUBA2 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (71.72 KDa) .



TUBA2 monoclonal antibody (M01), clone 3F10-2F2 Western Blot analysis of TUBA2 expression in Jurkat ((Cat # AT4399a)

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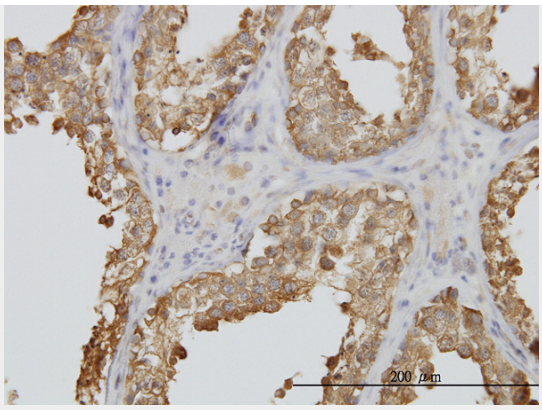
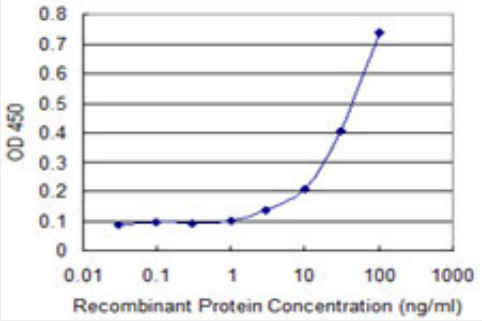


Immunoperoxidase of monoclonal antibody to TUBA2 on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged TUBA2 is approximately 0.03ng/ml as a capture antibody.

TUBA2 Antibody (monoclonal) (M01) - 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 is an alpha tubulin gene that encodes a protein 99% identical to the mouse testis-specific Tuba3 and Tuba7 gene products. This gene is located in the 13q11 region, which is associated with the genetic diseases Clouston hidrotic ectodermal dysplasia and Kabuki syndrome.

TUBA2 Antibody (monoclonal) (M01) - References

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.Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514.Histone deacetylase 6 regulates human immunodeficiency virus type 1 infection. Valenzuela-Fern?ndez A, et al. Mol Biol Cell, 2005 Nov. PMID 16148047.HIV-1 Tat, apoptosis and the mitochondria: a tubulin link? Giacca M. Retrovirology, 2005 Feb 7. PMID 15698476.HIV-1 Tat protein enhances microtubule polymerization. de Mareuil J, et al. Retrovirology, 2005 Feb 3. PMID 15691386.