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**Product Name: TUBA4A Mouse Monoclonal Antibody****Catalog #: AMM82569**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ELISA,FC
<b>Reactivity</b>	Human, Mouse, Rat, Monkey
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	50kDa

**Antigen Information**

<b>Gene Name</b>	TUBA4A
<b>Alternative Names</b>	ALS22; TUBA1; H2-ALPHA;Alpha-tubulin 1;TBA4A
<b>Gene ID</b>	7277.0
<b>SwissProt ID</b>	P68366
<b>Immunogen</b>	Purified recombinant fragment of human TUBA4A (AA: (299-447)) expressed in E. Coli.

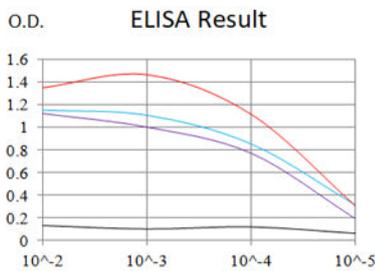
**Background**

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

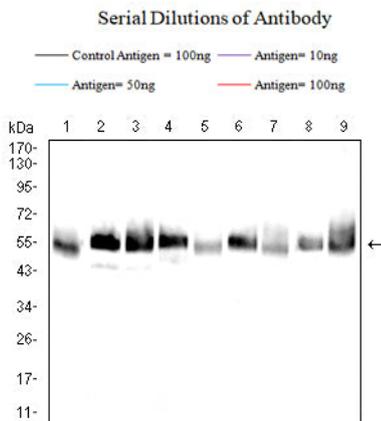
and beta tubulins represent the major components of microtubules, while gamma tubulin plays a critical role in the nucleation of microtubule assembly. There are multiple alpha and beta tubulin genes and they are highly conserved among and between species. This gene encodes an alpha tubulin that is a highly conserved homolog of a rat testis-specific alpha tubulin. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2013]

## Research Area

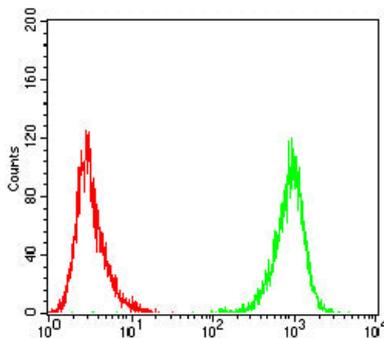
## Image Data



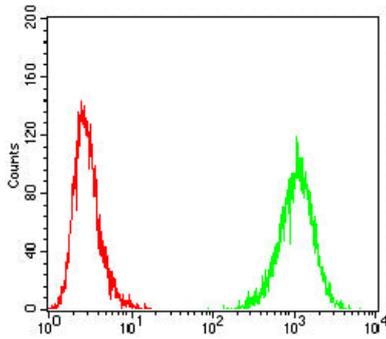
Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



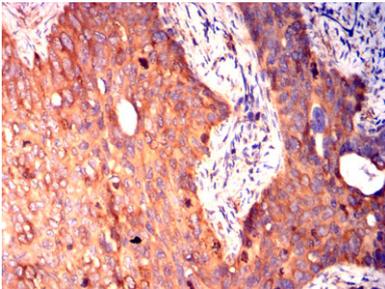
Western blot analysis using TUBA4A mouse mAb against A431 (1), Hela (2), HepG2 (3), Jurkat (4), Cos7 (5), C6 (6), NIH3T3 (7), HEK293 (8), and HEK293-6e (9) cell lysate.



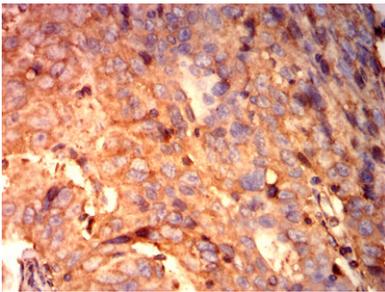
Flow cytometric analysis of A431 cells using TUBA4A mouse mAb (green) and negative control (red).



Flow cytometric analysis of Hepg2 cells using TUBA4A mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using TUBA4A mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissues using TUBA4A mouse mAb with DAB staining.