

Datasheet: VMA00173

**BATCH NUMBER 240615**

<b>Description:</b>	MOUSE ANTI TUBULIN ALPHA 1A CHAIN
<b>Specificity:</b>	TUBULIN ALPHA 1A CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	OTI2C8
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	100 µl

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Preparation

Mouse monoclonal antibody purified by affinity chromatography from ascites.

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide (NaN<sub>3</sub>)

<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	Full length recombinant human tubulin alpha 1A chain (NP_006000) produced in HEK293T cells
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q71U36</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7846</a>    TUBA1A    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	TUBA3
<b>Specificity</b>	<p><b>Mouse anti Human tubulin alpha 1A chain antibody, clone OT12C8</b> recognizes the tubulin alpha 1A chain, also known as hum-a-tub1, hum-a-tub2, tubulin B-alpha-1, tubulin alpha-1A chain, tubulin alpha-3 chain and tubulin, alpha, brain-specific.</p> <p>Microtubules of the eukaryotic cytoskeleton perform essential and diverse functions and are composed of a heterodimer of alpha and beta tubulins. The genes encoding these microtubule constituents belong to 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, which are highly conserved among species. The TUBA1A gene encodes alpha tubulin and is highly similar to the mouse and rat Tuba1 genes. Northern blotting shows that the gene expression is predominantly found in morphologically differentiated neurologic cells. TUBA1A is one of three alpha-tubulin genes in a cluster on chromosome 12q. Mutations in TUBA1A cause lissencephaly type 3 (<a href="#">LIS3</a>) - a neurological condition characterized by microcephaly, mental retardation, and early-onset epilepsy and caused by defective neuronal migration. Alternative splicing results in multiple transcript variants encoding distinct isoforms (provided by RefSeq, Jul 2012).</p> <p>Mouse anti Human tubulin alpha 1A chain antibody detects a band of 50 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
<b>Western Blotting</b>	Anti tubulin alpha 1A chain detects a band of approximately 50 kDa in HEK293 cell lysates.
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories.
<b>Health And Safety</b>	Material Safety Datasheet documentation #10048 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/VMA00173>  
Antibody (10048)

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M369962:200529'

**Printed on 13 Aug 2023**

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