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

TUBE1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1948a

Product Information

Application	WB, FC, E
Primary Accession	Q9UJT0
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	7G3B2
Isotype	IgG1
Calculated MW	52932
Description	This gene encodes a member of the tubulin superfamily. This protein localizes to the centriolar sub-distal appendages that are associated with the older of the two centrioles after centrosome duplication. This protein plays a central role in organization of the microtubules during centriole duplication. A pseudogene of this gene is found on chromosome 5.
Immunogen	Purified recombinant fragment of human TUBE1 (AA: 314-472) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID	51175
Other Names	Tubulin epsilon chain, Epsilon-tubulin, TUBE1, TUBE
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TUBE1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TUBE1
Synonyms	TUBE
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.

Note=Associated with pericentriolar material.

Background

The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE1 subfamily. Members of the PDE1 family are calmodulin-dependent PDEs that are stimulated by a calcium-calmodulin complex. This PDE has dual-specificity for the second messengers, cAMP and cGMP, with a preference for cGMP as a substrate. cAMP and cGMP function as key regulators of many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. ; ;

References

1. Nat Cell Biol. 2003 Jan;5(1):71-6.2. Nat Cell Biol. 2000 Jan;2(1):30-5.

Images

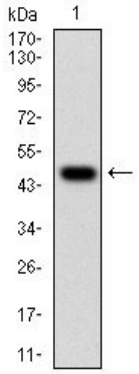

Figure 1: Western blot analysis using TUBE1 mAb against human TUBE1 (AA: 314-472) recombinant protein. (Expected MW is 44.3 kDa)

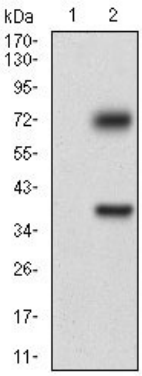

Figure 2: Western blot analysis using TUBE1 mAb against HEK293 (1) and TUBE1 (AA: 314-472)-hIgGFc transfected HEK293 (2) cell lysate.

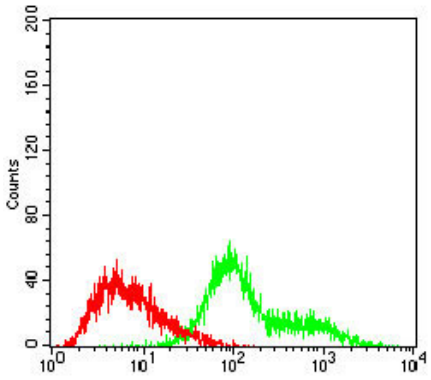

Figure 3: Flow cytometric analysis of Hela cells using TUBE1 mouse mAb (green) and negative control (red).