

α Tubulin Mouse mAb-Loading Control

CatalogNo: YM3115 **Orthogonal Validated** 

Key Features

Host Species

- Mouse

Reactivity

- Zebrafish

Applications

- WB

MW

- 52kD (Observed)

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Recommended Dilution Ratios

WB 1:500-10000

Basic Information

Clonality Monoclonal

Clone Number 14B11

Immunogen Information

Immunogen Recombinant Protein of Tubulin alpha-1A chain

Specificity The antibody detects Zebrafish endogenous α -tubulin protein.

Target Information

Gene name TUBA1A

Protein Name

Tubulin alpha-1A chain

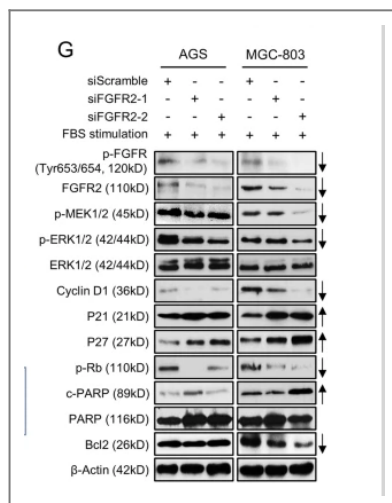
Organism	Gene ID	UniProt ID
Human	7846 ; 10376 ;	Q71U36 ; P68363 ;
Mouse	22142 ; 22143 ;	
Rat	64158 ; 500929 ;	P68370 ; Q6P9V9 ;

Cellular Localization

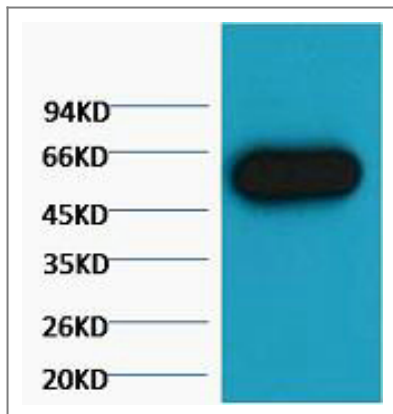
Cytoplasm, cytoskeleton.

Tissue specificity Expressed at a high level in fetal brain.**Function**

Disease: Defects in TUBA1A are the cause of lissencephaly type 3 (LIS3) [MIM:611603]. LIS is characterized by a smooth brain surface due to the absence (agyria) or reduction (pachygyria) of surface convolutions. It is often associated with psychomotor retardation and seizures. LIS3 features include agyria or pachygyria or laminar heterotopia, severe mental retardation, motor delay, variable presence of seizures, and abnormalities of corpus callosum, hippocampus, cerebellar vermis and brainstem. Function: Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha-chain. PTM: Undergoes a tyrosination/detyrosination cycle, the cyclic removal and re-addition of a C-terminal tyrosine residue by the enzymes tubulin tyrosine carboxypeptidase (TTCP) and tubulin tyrosine ligase (TTL), respectively. Similarity: Belongs to the tubulin family. Subunit: Dimer of alpha and beta chains. Tissue specificity: Expressed at a high level in fetal brain.

Validation Data

Zhang, J., Wong, C.C., Leung, K.T. et al. FGF18-FGFR2 signaling triggers the activation of c-Jun-YAP1 axis to promote carcinogenesis in a subgroup of gastric cancer patients and indicates translational potential. *Oncogene* 39, 6647-6663 (2020).



Western blot analysis of Zebrafish skeletal muscle, (Zebrafish Specific) diluted at 1:5000.

Contact information

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