

α Tubulin (PT2182) Mouse mAb-Loading Control

CatalogNo: YM3035

Orthogonal Validated Comparable Abs 

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat

Applications

- IHC, WB, IF, ELISA

MW

- 52kD (Calculated)
- 52kD (Observed)

Isotype

- IgG2b, Kappa

Storage

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

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

IHC 1:200-1000

WB 1:1000-5000

IF 1:100-500

ELISA 1:5000-50000

Basic Information

Clonality Monoclonal

Clone Number PT2182

Immunogen Information

Immunogen Recombinant Protein of Tubulin alpha-1A chain. AA range: 350-451

Specificity This antibody detects endogenous levels of Tubulin α protein.

Target Information

Gene name TUBA1A

Protein Name Tubulin alpha-1A chain

Organism	Gene ID	UniProt ID
Human	7846 ; 10376 ; Q71U36 ; P68363 ; Q9BQE3 ; P0DPH7 ; P0DPH8 ; Q6PEY2 ; P68366 ; Q9NY65 ;	
Mouse	22142 ; 22143 ;	
Rat	64158 ; 500929 ;	P68370 ; Q6P9V9 ;

Cellular Localization Cytoplasmic

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

Contact information

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