

α Tubulin (8F11) Mouse mAb (Biotin)

CatalogNo: YM2180 Comparable Abs C

Key Features

Host Species Reactivity Applications
• Mouse • Human, Mouse, Rat • WB, IHC, IF, IP

Isotype Conjugate
• IgG • Biotin

Recommended Dilution Ratios

Optimal working dilutions should be determined experimentally by the investigator Suggested starting dilutions are as follows:WB 1:5000-10000 IHC 1:50-300.

Storage

Storage* Stable for one year at -15°C to -25°C from date of shipment. For maximum recovery of

product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot

to avoid repeated freezing and thawing.

Formulation Liquid in PBS, pH 7.4, containing 0.02% sodium azide as preservative and 50% Glycerol.

Basic Information

Clonality Monoclonal

Clone Number 8F11

Immunogen Information

 $\textbf{Specificity} \qquad \qquad \alpha\text{-tubulin Monoclonal Antibody(8F11) Biotin conjugated specially designed for your WB or }$

IHC analysis.

| Target Information

Gene name TUBA1A

Protein Name Tubulin alpha-1A chain

Organism Gene ID UniProt ID

Human <u>7846; 10376;</u> <u>Q71U36; P68363;</u>

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



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

Contact information

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