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

Anti-Alpha-Tubulin Antibody (Monoclonal, DM1A)

Catalog # ABO10490

Specification

Anti-Alpha-Tubulin Antibody (Monoclonal, DM1A) - Product Information

Application	**WB, IHC-P**
Primary Accession	Q71U36
Host	**Mouse**
Isotype	**Mouse IgG1**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**
Format	**Lyophilized**

Description
Mouse IgG monoclonal antibody for alpha-Tubulin detection. Tested with WB, IHC-P in Human;mouse;rat;chicken. No cross reactivity with other proteins.

Reconstitution
Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Anti-Alpha-Tubulin Antibody (Monoclonal, DM1A) - Additional Information

Gene ID 7846

Other Names
Tubulin alpha-1A chain, Alpha-tubulin 3, Tubulin B-alpha-1, Tubulin alpha-3 chain, Detyrosinated tubulin alpha-1A chain, TUBA1A, TUBA3

Calculated MW
50136 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 1-2 µg/ml, Human, mouse, rat, chicken, By Heat

Western blot, 2 µg/ml, Human, mouse, rat, chicken

Subcellular Localization
Cytoplasm, cytoskeleton.

Tissue Specificity
Expressed at a high level in fetal brain. .

Protein Name
Tubulin alpha-1A chain

Contents
Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.

Immunogen
Microtubules from chicken embryo brain.

Purification
Ascites

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-Alpha-Tubulin Antibody (Monoclonal, DM1A) - Protein Information

Name TUBA1A

Synonyms TUBA3

Function
Tubulin is the major constituent of microtubules, a cylinder consisting of laterally associated linear protofilaments composed of alpha- and beta-tubulin heterodimers. Microtubules grow by the addition of GTP-tubulin dimers to the microtubule end, where a stabilizing cap forms. Below the cap, tubulin dimers are in GDP-bound state, owing to GTPase activity of alpha-tubulin.

Cellular Location
Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:P68369}

Tissue Location
Expressed at a high level in fetal brain.

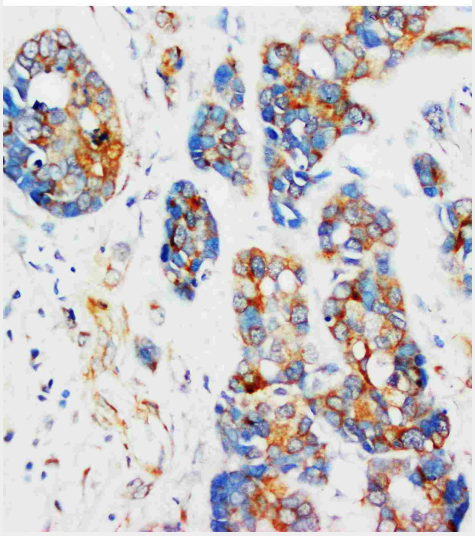
Anti-Alpha-Tubulin Antibody (Monoclonal, DM1A) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Alpha-Tubulin Antibody (Monoclonal, DM1A) - Images

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



Anti-alpha-Tubulin antibody (monoclonal), ABO10490, IHC(P)IHC(P): Human Mammary Cancer Tissue

Anti-Alpha-Tubulin Antibody (Monoclonal, DM1A) - Background

Alpha-tubulin(b-alpha-1) mRNA is expressed only in brain with a molecular weight of about 55,000. The 3-prime UTR of b-alpha-1 is more than 80% homologous to the UTR of the rat brain alpha-tubulin gene, IL-alpha-T1. B-alpha-1 encodes a predicted 451-amino acid protein that is 100% identical to the rat homolog and differs by only 2 and 3 amino acids from the pig and chicken homologs, respectively.