

Rev05
Update: Nov,03,2023

DATASHEET

β -tubulin Antibody (2G7D4), mAb, Mouse

Cat. No.: A01717

Overview

Specificity	GenScript β -tubulin Antibody (2G7D4), mAb, Mouse reacts with human, monkey, goat, bovine, swine, rabbit, rat, mouse, chicken and fish β -tubulin. This product has not yet been tested in other species.
Host Species	Mouse
Immunogen	purified human recombinant full-length β -tubulin protein
Conjugate	Unconjugated

Applications

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

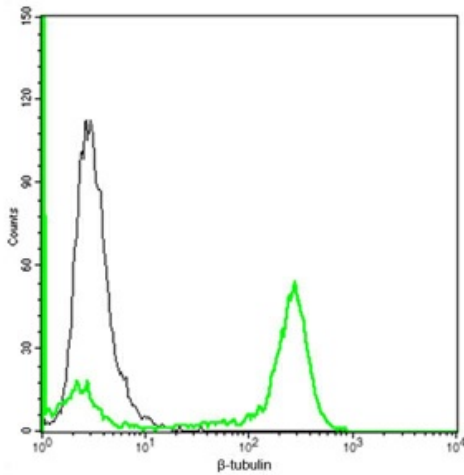
Application	Recommended Usage
Western Blot	0.2-1 μ g/ml
Flow Cytometry	1 μ g for 1×10^6 cells
Immunohistochemistry (IHC)	10-20 μ g/ml

Properties

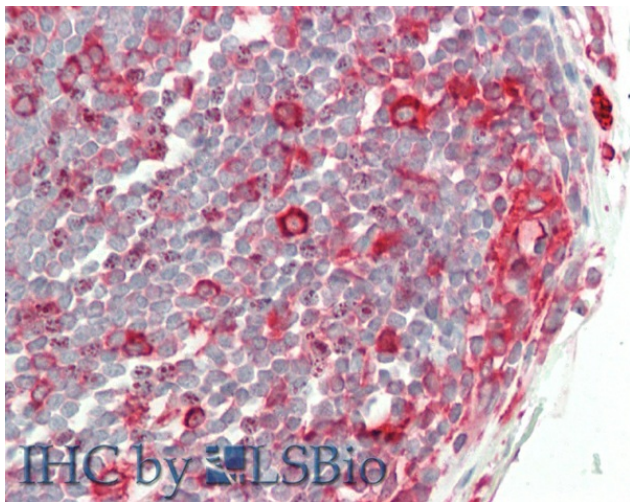
Form	Lyophilized
Storage Buffer	lyophilized with PBS, pH 7.4, containing 0.02% sodium azide
Reconstitution	Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/mL.
Storage Instructions	The lyophilized product remains stable for up to 1 year at -20 °C from the date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8 °C or for up to 12 months at -20 °C or below. Avoid repeated freezing and thawing cycles.

Purification	Protein A affinity column
Isotype	Mouse IgG1, κ
Clonality	Monoclonal
Clone ID	2G7D4

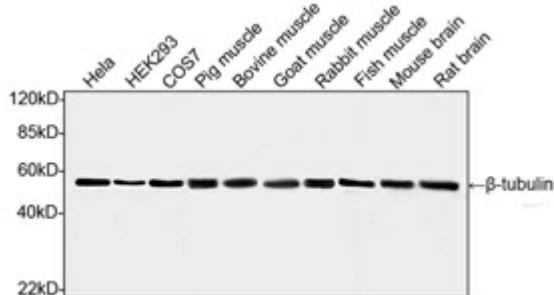
Examples



Flow cytometric analysis of CHO cells using β -tubulin Antibody (2G7D4), mAb, Mouse (Green) or with an isotype control antibody (GenScript, A01007; open histogram) (black) followed by FITC conjugated anti-mouse IgG.



Immunohistochemistry analysis of human colon tissue slide (Paraffin embedded) using β -tubulin Antibody (2G7D4), mAb, Mouse (GenScript, Cat.No. A01717, 15 μ g/ml)



Western blot analysis of cell and tissue lysates using β -tubulin Antibody (2G7D4), mAb, Mouse (GenScript, A01717, 1 μ g/ml)
 The signal was developed with IRDyeTM 800 Conjugated affinity Purified Goat Anti-Mouse IgG
 Predicted Size: 50 kD
 Observed Size: 50 kD

Background

Target Background : 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. It is a dimer of alpha (α) and beta (β) chains. β -tubulin is ubiquitously expressed with highest levels in spleen, thymus and immature brain and it has a highly acidic C-terminal region which may bind cations such as calcium. This antibody can be used as a loading control on Western blots. GenScript β -tubulin Antibody (2G7D4), mAb, Mouse is produced from the hybridoma resulting from fusion of SP2/0-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with purified human recombinant full-length β -tubulin protein.

Synonyms : Beta tubulin antibody;

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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