



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-Porcine Tubulin beta, N-terminus

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-03517

Target Species
Pig

Isotype
IgM

Preparation

Immunogen: Tubulin beta from porcine brain.

Purification: Purified IgM prepared by ion exchange chromatography

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgM - liquid

Buffer Solution: Borate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide (NaN_3)

Approx. Protein Concentration: IgG concentration 1.0mg/ml

Specificity

DS-MB-03517 recognizes an epitope within the N-terminal region (NT) of tubulin beta, a 50kDa globular protein and major constituent of microtubules within the cytoskeleton, involved in meiosis, mitosis, intracellular transport and maintaining cell shape.

The evolutionarily conserved heterodimer tubulin, made up of a tubulin alpha and beta chain, binds two molecules of GTP, one at a non-exchangeable site on the alpha chain and one at an exchangeable site on the beta chain. Only the beta chain possesses GTPase activity however, hydrolyzing GTP to GDP, and influencing the stability of the dimer within the microtubule.

Species Cross Reactivity: Reacts with Human, Plants, Mouse

N.B. Antibody reactivity and working conditions may vary between species.

Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 18 months from date of shipment

The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunohistology - Frozen	•			
Immunohistology - Paraffin			•	
Immunohistology - Resin			•	
ELISA	•			
Western Blotting (1)	•			1.0ug/ml

Note: Other applications are not tested yet. Optimal dilutions should be determined by the user.

(1) This antibody detects a band of approximately 50kDa in human RAJI and mouse EL4 cell lysates.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

References

1. Krauhs, E. *et al.* (1981) Complete amino acid sequence of beta-tubulin from porcine brain. P.N.A.S. 78: 4156-4160.
2. Draber, P. *et al.* (1990) Inhibition of microtubule assembly *in vitro* by anti-tubulin monoclonal antibodies. FEBS Lett. 262: 209-211.

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