

# **Product datasheet for SM2202P**

#### OriGene Technologies, Inc.

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## Tubulin (TUBA1B) (Tyr-Tubulin) Rat Monoclonal Antibody [Clone ID: YL1/2]

**Product data:** 

**Product Type:** Primary Antibodies

Clone Name: YL1/2

**Applications:** ELISA, IF, IHC, IP, R, WB

Recommended Dilution: ELISA: 1/100-1/1000 (This antibody is routinely tested in ELISA on Tubulin) (3).

Immunoprecipitation. Radioimmunoassay. Immunofluorescence.

Western blotting: Suitable for use as a Loading Control.

Immunohistochemistry on Frozen Sections.

**Reactivity:** Mammalian, Yeast, Birds

Host: Rat IgG2a

Clonality: Monoclonal Immunogen: Yeast Tubulin.

Spleen cells from immunised LOU rats were fused with cells of the Y3.Ag.1.2.3 rat myeloma

cell line.

**Specificity:** This antibody SM2202P recognizes the alpha subunit of Tubulin, specifically binding

tyrosylated Tubulin (Tyr-Tubulin) (2). The epitope recognized by this antibody has been extensively studied and would appear to be a linear sequence requiring an aromatic residue at the C terminus, with the two adjacent amino acids being negatively charged (represented

by Gly-Gly-Tyr in Tyr-Tubulin).

The antibody has been used in epitope tagging procedures to detect proteins tagged with a C-terminal *Gly-Gly-Phe* epitope. These sequence requirements have been reported to result in some cross-reactivity with other proteins in certain circumstances, including *E. coli* rec A and

oxidized Actin (5).

Formulation: PBS

State: Purified

State: Liquid purfied IgG fraction Preservative: 0.09% Sodium Azide

**Concentration:** lot specific



### Tubulin (TUBA1B) (Tyr-Tubulin) Rat Monoclonal Antibody [Clone ID: YL1/2] - SM2202P

**Purification:** Affinity Chromatography on Protein G from tissue culture supernatant

Conjugation: Unconjugated

**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**Gene Name:** tubulin alpha 1b

**Database Link:** Entrez Gene 10376 Human

P68363

**Background:** Tubulin is the major building block of microtubules. This intracellular cylindrical filamentous

structure is present in almost all eukaryotic cells. Microtubules function as structural and

mobile elements in mitosis, intracellular transport, flagellar movement and in the

cytoskeleton. Tubulin is a heterodimer which consists of alpha tubulin and beta tubulin.

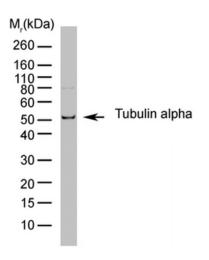
Synonyms: Tubulin alpha-1B chain, Tubulin alpha-ubiquitous chain, Alpha-tubulin ubiquitous, Tubulin K-

alpha-1

**Protein Families:** Druggable Genome

**Protein Pathways:** Gap junction, Pathogenic Escherichia coli infection

# **Product images:**



HeLa whole cell lysate probed with Rat anti Tubulin Alpha antibody HRP conjugated