

Product datasheet for **SM2202P**

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
Isotype:	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 <i>Gly-Gly-Tyr</i> in Tyr-Tubulin). The antibody has been used in epitope tagging procedures to detect proteins tagged with a C-terminal <i>Gly-Gly-Phe</i> epitope. These sequence requirements have been reported to result in some cross-reactivity with other proteins in certain circumstances, including <i>E. coli</i> rec A and oxidized Actin (5).
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific



[View online »](#)

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: