Product Datasheet

gamma-Tubulin Antibody (orb44548)

Catalog Number	orb44548
Category	Antibodies
Description	Mouse Monoclonal to gamma Tubulin.
Target	gamma-Tubulin
Clonality	Monoclonal
Isotype	Mouse IgG1
Conjugation	Unconjugated
Reactivity	Bovine, Gallus, Human, Mouse, Plant, Porcine, Protozoa, Rat
Concentration	1 mg/ml
Buffer/Preservatives	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Purification	Purified by protein-A affinity chromatography.
Immunogen	C-terminal peptide of gamma-tubulin counjugated to KLH.
UniProt ID	P23258
RRID	AB_10988696
Tested applications	FC, ICC, WB

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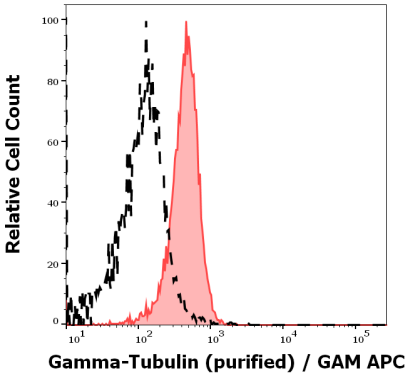
Application notes	Immunocytochemistry: Recommended dilution: 1-2 µg/ml. Staining technique: (a) Fix cells for 10 min in methanol at -20°C and for 6 min in acetone at -20°C; (b) Fix cells directly in methanol for 10 min at -20°C or in acetone for 10 min at -20°C. Positive control: P-19 murine embryonal carcinoma cell line, 3T3 murine fibroblasts. The antibody TU-30 stains only fixed cells.Western blotting: Recommended dilution 1-2 µg/ml, reducing conditions.
Specificity	The antibody TU-30 recognizes C-terminus (amino acids 434-449 in human) of gamma-tubulin, a 48 kDa structural constituent of cytoskeleton and microtubule organizing center (MTOC). The epitope was located in the amino acid sequence TRPDYI (aa439-444 in human), which is present on human gamma-tubulin 1 but not on human gamma-tubulin 2.
Antibody Type	Primary Antibody
Clone Number	TU-30
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Entrez	**7283**
Expiration Date	12 months from date of receipt.



Separation of MCF-7 cells stained using anti-gamma-Tubulin (TU-30) purified antibody (concentration in sample 9 µg/ml, GAM APC, red-filled) from MCF-7 cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (intracellular staining).

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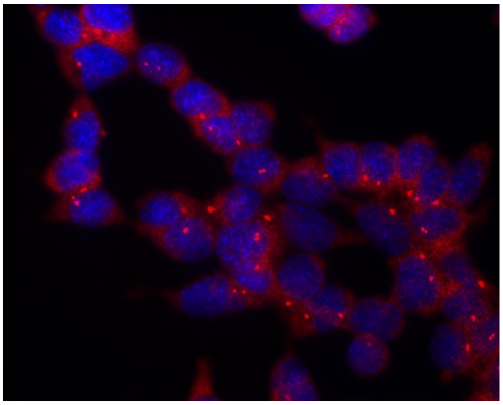
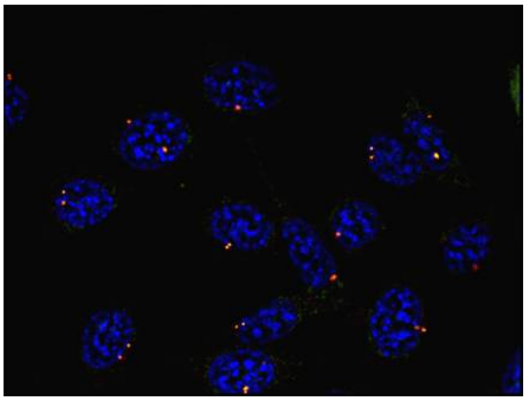
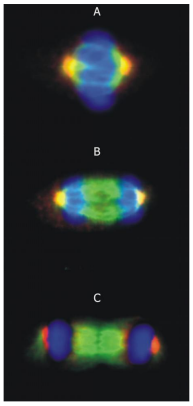


Immunocytochemistry staining of P19X1 mouse embryonal carcinoma cell line using anti-gamma-tubulin (TU-30) (detection by secondary antibody Goat anti-mouse Cy3). Nuclei were stained with DAPI (blue).



Immunocytochemistry staining of murine fibroblasts using anti-gamma-tubulin (TU-30; direct conjugate with Dyomics 547, red). Nuclei were stained with DAPI (blue).



Immunocytochemistry staining of microtubular networks in 3T3 mouse fibroblasts. A - metaphase; B - anaphase; C - telophase. Gamma-tubulin (red) stained with anti-gamma-tubulin (TU-30), alpha-tubulin (green) with polyclonal anti-alpha-tubulin antibody and nuclei with DAPI (blue).

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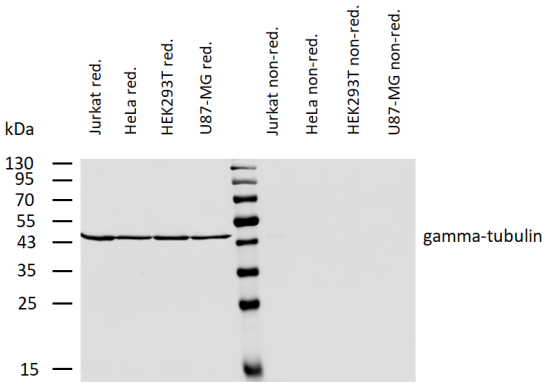
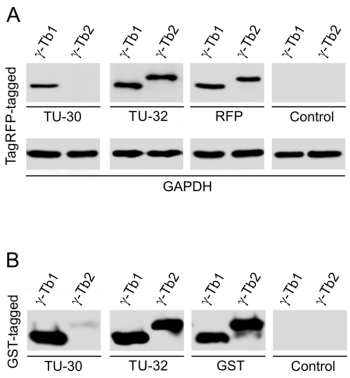


Western blotting analysis of human gamma-tubulin using mouse monoclonal antibody TU-30 on lysates of various cell lines under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse anti-gamma-tubulin monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. A specific band was detected for gamma-tubulin at approximately 46 kDa.



Western blotting analysis of differential reactivity of monoclonal antibodies to γ-tubulin with human γ-tubulin isotypes. (A) Immunoblots of total cell lysates from SH-SY5Y cells, expressing TagRFP-tagged human γ-tubulin 1 (γ-Tb1) or γ-tubulin 2 (γ-Tb2), probed with Abs to γ-tubulin (TU-30, TU-32), TagRFP (RFP) and GAPDH. In control samples, only secondary anti-mouse Ab was applied. (B) Immunoblots of immobilized GST-tagged human C-terminal regions (a.a. 362-451) of γ-Tb1 or γ-Tb2 probed with Abs to γ-tubulin (TU-30, TU-32) and GST. In control samples, only secondary anti-mouse Ab was applied.

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