



POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-69-001-EX

Anti- gamma tubulin
(Xenopus)**BACKGROUND**

Tubulin is the major constituent of microtubules. There are three members (a, b, g) and two subtypes (d, e) in the tubulin family. On these members, **Gamma tubulin (451aa, 51KDa)** is found at microtubule organizing centers (MTOC) such as the spindle poles or the centrosome, suggesting that it is involved in the minus-end nucleation of microtubule assembly during cell cycle.

Product type	Primary antibodies
Antigen	Xenopus gamma-tubulin C-terminal peptide, C-TENSFTLDADF conjugated with KLH
Host	Rabbit
Clone	-
Isotype	-
Source	Serum
Form	PBS, 50% glycerol, affinity purified, filter-sterilized
Concentration	1mg/ml
Volume	100 ug
Label	-
Specificity	Reacts with g-tubulin of Xenopus, human and rodents
Cross reactivity	Xenopus, Human, Rodents
Storage	Shipped at 4°C. Upon arrival aliquot and store at -20°C or below.
Other	Data Link : UniProtKB/Swiss-Prot P23330 (TBG1_XENLA)

Application notes	WB, IF Other applications have not been tested. Recommended dilutions Western blotting (200 - 1,000 fold dilution) Immunofluorescent staining (assay dependent) Optimal dilutions/concentrations should be determined by the end user.
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References	1) Masuda H et al Role of g-tubulin in mitosis-specific microtubule nucleation from the <i>Schizosaccharomyces pombe</i> spindle pole body <i>J. Cell Sci.</i> 109,: 165-177(2000) PMID: 8834801 (WB) 2) Takeda S. et al. Identification of Ribonucleotide Reductase Protein R1 as an Activator of Microtubule Nucleation in <i>Xenopus</i> . <i>Mol Biol Cell</i> 11: 4173-4187 (2000) PMID: 11102516 (IF)
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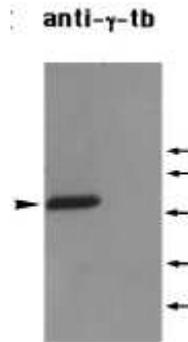


Fig.1 . Identification of γ -tubulin in a Xenopus mitotic extract by western blot analysis with this antibody at 1,000 fold dilution. Arrow head indicates the position of they-tubulin and arrows indicate positions of marker proteins, 97, 66, 45,31, and 20 kDa from the top to the bottom.



Fig.2 Immunofluorescent staining of γ -tubulin accumulated at sperm centriole in demembrated Xenopus sperm heads which have been incubated in a Xenopus egg mitotic extract containing nocodazole. γ -Tubulin is stained red and sperm chromatin is stained with DAPI (blue).

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