bsm-33313M **[Primary Antibody]**

Gamma Tubulin Mouse mAb

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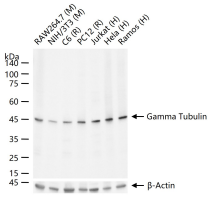
DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 8D11
GeneID: 27175
SWISS: P23258
Target: Gamma Tubulin
Purification: affinity purified by Protein G
Concentration: 1mg/ml
Storage: Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

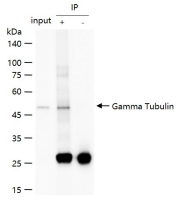
Background: Gamma tubulin, a member of the tubulin superfamily, is a ubiquitous and highly conserved protein within the microtubule organizing centre (MTOC). Gamma tubulin is not a component of microtubules, rather it functions as the microtubule nucleator at the MOTC, is responsible for binding microtubule minus ends and mediating the link between microtubles and the centrosome. By binding to the beta tubulin subunit of the tubulin molecule, it establishes the polarity of a microtubule leaving the alpha tubulin subunit exposed at the positive end.
The abundance of Gamma tubulin is less than 1% of the level of either alpha or beta tubulin. It shares approximately 28-32% identity with alpha tubulin from various organisms and 32-36% identity with beta tubulins. The detection, localization and characterization of proteins involved in microtubule function is fundamental to the understanding of mitosis, meiosis and the microtubule cytoskeleton.

Applications: **WB** (1:500-5000)
IP (1:50-200)
Reactivity: Human, Mouse, Rat
Predicted MW.: 50 kDa
Observed MW.: 46 kDa
Subcellular Location: Cytoplasm

VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with Gamma Tubulin monoclonal antibody, unconjugated (bsm-33313M) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Gamma Tubulin was immunoprecipitated from Mouse Cerebrum tissue lysate with bsm-33313M at 1/50 dilution. Western blot was performed from the immunoprecipitate using protein A/G beads. HRP conjugated Goat Anti-Mouse IgG (light chain specific) was used as secondary antibody. Lane 1: Mouse Cerebrum tissue lysate (Input). Lane 2: bsm-33313M IP in Mouse Cerebrum tissue lysate. Lane 3: native mouse IgG IP in Mouse Cerebrum tissue lysate (negative control).