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Product Data Sheet

Purified anti-Tubulin-gamma

Catalog #/ Size: 629201 / 25 µg
629202 / 100 µg

Clone: 14C11

Isotype: Mouse IgG2b, κ

Immunogen: Peptide-KLH

Reactivity: Human, Mouse, Rat

Preparation: The antibody was purified by protein G affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide at 0.5 mg/ml.

Storage: Upon receipt, store undiluted at 4° C.

Applications

Applications: WB

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 µg per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

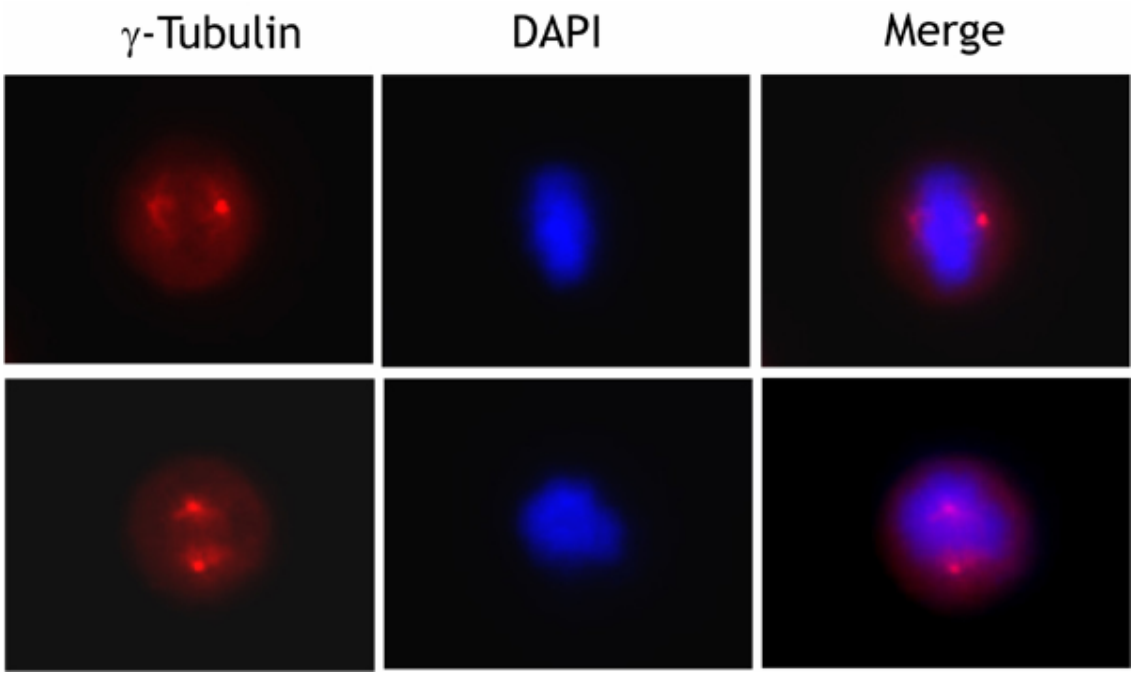

Figure 1. Overnight nocodazole treated Hela cells stained with purified mouse monoclonal antibody against g-Tubulin (clone 14C11) followed by Rhodamine Red-X conjugated donkey anti-mouse IgG and DAPI.

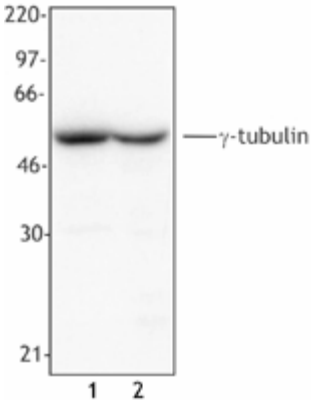

Figure 2. Cell extract from A431 cells (Lane 1) or NIH3T3 cells (Lane 2) was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-γ-tubulin (Clone 14C11) antibody. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.

Antigen Information

Other Names: γ-tubulin

Structure: Tubulin superfamily, highly conserved between yeast and mammals. Predicted molecular weight approximately 51 kD

Distribution: Cytoskeletal protein, high expressed in centrosomes

Function: Cytoskeletal organization, mitosis

Regulation: Expressed at highest levels during prophase to metaphase

Modification: Phosphorylation

Interaction: Interacts with α-tubulin, paxillin, RAC GTPase activated protein 1

Description: γ-tubulin is a 51 kD member of the tubulin superfamily and is conserved between yeast and mammals. This cytoskeletal protein is highly expressed in centrosomes and is thought to be involved in cytoskeletal organization and mitosis. γ-tubulin is expressed at highest levels during prophase to metaphase and can be modified by phosphorylation. This protein has been shown to interact with α-tubulin, paxillin, and RAC GTPase activated protein 1. The 14C11 antibody has been shown to be useful for Western blotting of human, mouse and rat γ-tubulin.

Antigen References:

1. Zheng, Y., *et al.*, 1991. *Cell* 65:817.