

Mitotin Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 3320

Size: 100 ug or 200 ug Protein G-purified antibody in PBS, pH 7.4

SPECIFICATION SUMMARY

Antigen: GST fusion protein expressed in *E. coli* corresponding to aa 1759-2093 of human mitotin.

Host Species: Mouse

Antibody Class: IgG2a/ κ

Stabilizers: None

Preservatives: None. Available on request.

SPECIFICITY

This antibody recognizes mitotin, a 350 kD phosphoprotein that is specifically involved in mitotic-phase progression. Mitotin is expressed throughout S, G₂, and M phases of the cell cycle, but is absent in G₀ and G₁. It associates with the mitotic apparatus during M-phase and is redistributed from the nucleus to the centromere, spindle, and midbody during M-phase progression. Its usefulness as a proliferation marker is under active investigation.

APPLICATIONS

Immunoblotting: use at 1-10 ug/ml.

Immunoprecipitation: use at 1-10 ug/ml.

Immunohistochemistry: use at 10 ug/ml with frozen or paraffin-embedded sections.

Positive controls: Human tissue containing rapidly proliferating cells, such as lymphoid germinal centers.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -70°C. Avoid multiple freeze-thaw cycles.

REFERENCE

Allred, DC et al. (1997) Lab Invest 15A (69); Zhu, X et al. (1995), Mol Cell Biol 15: 5017-5029.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.