Mouse Monoclonal antibody to ATM Kinase [10H11.E12]

Catalog Number: NB100-306

Background: ATM-kinase plays an important regulatory role. DNA damage caused by such things as ionizing irradiation activates ATM-kinase, leading to a cascade of kinase reactions that regulate cell cycle, apoptosis, and DNA damage repair.

Alternate Names: anti-phosphorylated ATM antibody, anti-ATM S1981 antibody, anti-ATM phosphorylated Ser 1981 antibody

Host: Mouse

Research Areas: DNA double strand break repair, Phospho-Specific, DNA Repair and DNA Damage, Focus On: DNA Repair


Clone: 10H11.E12

Isotype: IgG1 Kappa

Specificity: NB 100-306 is specific for the human ATM kinase.

Species Reactivity: NB 100-306 reacts with human and rat protein.

Uses: Western blotting (a single ~370 kDa band should be seen).

Suggested working dilutions: *

Western Blot - 1:1,000 (ECL)
Immunoprecipitation - ND
Immunocytochemistry - 1:1,000

* The investigator should determine the optimal working dilution for a specific application.

* Other applications have not been tested.

Dilutions: Suggested working dilutions *

Western Blot

* Investigator should determine optimal working dilutions.

Positive Controls: Irradiated normal human fibroblasts. No reactivity against un-irradiated cell extracts.

Packaging: 0.1 ml of mouse ascites.

Preservative: 0.05 sodium azide

Storage: Store at -20 degrees Celcius. Avoid freeze-thaw cycles.

Notes: This antibody and certain aspects of its use are disclosed and claimed in pending U.S. Patent Applications published as U.S. Patent Publication Nos. 2003/0077661 and 2003/0157572.

Limitations: This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 6 months from date of receipt.

General References: 1. Bakkenist, C. et al. DNA damage activates ATM through intermolecular


Image(s)

Western Blot analysis of ATM-kinase, using NB 100-306. Sample: Irradiated or peroxidated human fibroblasts.