

Product Data Sheet

Purified anti-NPM/B23-Phosphorylated (Thr234/Thr237)

Catalog # / Size: 619101 / 50 µl (5 Western blots)
 619102 / 200 µl (20 Western blots)

Clone: Poly6191

Isotype: Rabbit IgG

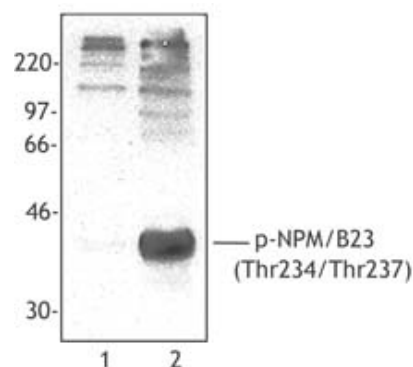
Immunogen: Modified peptide

Reactivity: Human, reacts against Thr234/Thr237-phosphorylated NPM/B23

Preparation: The antibody was purified by antigen-affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. Bovine serum albumin is present at 1 mg/ml final concentration (USA origin).

Storage: Upon receipt, store frozen at -20° C.



Hela cells were treated with 300 µM mimosine for 16 h, then placed in complete media (lane 1) or media containing 200 ng/ml nocodazole (lane 2) for an additional 18h. Nuclear extract was western blotted with Poly6191. In addition to the specific NPM/B23 band, this antibody recognizes several other non-specific proteins with molecular weights >66kD.

Applications:

Applications: WB - Quality tested
 IHC - Validated

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. For IHC, use a 1:50 dilution of antibody for staining. Antigen retrieval using 0.01 M sodium citrate buffer is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

Application References: 1. Wang Z, *et al.* 2010. *Sci Signal.* 3;2. *PubMed*

Description: NPM/B23 (also known as numatrin, nucleophosmin 1, nucleolar phosphoprotein B23) is a member of the nucleophosmin/nucleoplasmin family that shuttles between the nucleus and cytoplasm. This protein regulates the stability and transcriptional activity of p53 and acts as a molecular chaperone. NPM/B23 preferentially binds to denatured proteins and has been shown to stimulate DNA polymerase activity and control the duplication of centrosomes. The chaperone activity of NPM/B23 is regulated by protein kinase CK2 and promotes release of denatured substrates from NPM/B23. NPM/B23 is modified by phosphorylation on Thr199. This protein has been shown to bind to RNA and DNA and interact with nucleolar proteins including nucleolin, protein P120, HIV-1 Rev protein, and hepatitis delta antigens. The Poly6191 antibody recognizes human phosphorylated NPM/B23 (Thr234/Thr237) and has been shown to be useful for Western blotting.

Antigen References: 1. Szebeni A, *et al.* 2003. *J. Biol. Chem.* 278:9107.
 2. Colombo E, *et al.* 2002. *Nat. Cell Biol.* 4:529.
 3. Chan PK, *et al.* 1986. *J. Biol. Chem.* 261:14335.

Related Products:Product

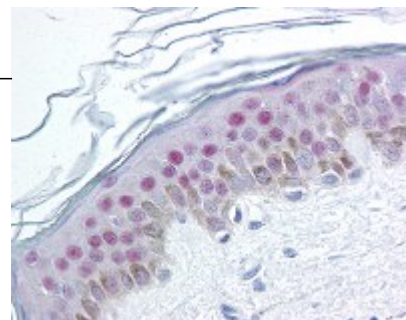
Purified anti-Nucleolin-Phosphorylated (Thr76/Thr84)
 Purified anti-NPM/B23-Phosphorylated (Thr199)
 HRP Donkey anti-rabbit IgG (minimal x-reactivity)

Clone

10C7
 Poly6192
 Poly4064

Application

WB, IHC
 WB, IHC
 ELISA, IHC, WB



Formalin-fixed paraffin-embedded human epidermis tissue was stained with Poly6191 and developed with an alkaline phosphatase chromogen substrate (red color). Tissue was counterstained with H&E (blue/pink). Magnification, 40X.



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