





**Fig.2 Dephosphorylation of phospho - NPM1 protein by incubation with  $\lambda$ protein phosphatase in vitro.**

HeLa cells treated with Nocodazole was lysed, and NPM1 protein was immunoprecipitated with anti-NPM1 antibody. The precipitate was suspended in 50  $\mu$ l of  $\lambda$  protein phosphatase reaction buffer added with 5  $\mu$ l of the protein phosphatase and incubated at 30  $^{\circ}$ C for the indicated time (min). The reaction products were analyzed by western blotting.

**Reference:** This product has been used in the following publications.

1. Tojima T et al. Steering neuronal growth cones by shifting the imbalance between exocytosis and endocytosis. *J Neurosci*. 2014 May 21;34(21):7165-78. PMID: [24849351](#)
2. Moriyama T et al. SUMO-modification and elimination of the active DNA demethylation enzyme TDG in cultured human cells. *Biochem Biophys Res Commun*. 2014 May 9;447(3):419-24. PMID: [24727457](#)
3. Yang CC et al. Claspin recruits Cdc7 kinase for initiation of DNA replication in human cells. *Nature Commun*. 2016, 7: 12135. PMID: [27401717](#)
4. Tomii S et al. Cortical Actin Alteration at the Matrix-Side Cytoplasm in Lung Adenocarcinoma Cells and Its Significance in Invasion. *Pathobiology*. 2017; 84(4):171-183. PMID: [28002815](#)
5. Honda T & Inui M. PDZRN3 regulates differentiation of myoblasts into myotubes through transcriptional and posttranslational control of Id2. *J. Cell Physiol*. 2019, 234: 2963-2972. PMID: [30066954](#)

**Useful References:**

1. Cohen PTW & Cohen P (1989) "Discovery of a protein phosphatase activity encoded in the genome of bacteriophage  $\lambda$ ." *Biochem J*. **260**: 931-934 PMID: [2548489](#)
2. Zhuo S et al (1993) "Expression, purification, crystallization, and biochemical characterization of recombinant protein phosphatase." *J. Biol. Chem.* **268**:17754-17761 PMID: [8394350](#)

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.