# Product Datasheet

## SMC1 [p Ser957] Antibody - BSA Free
## NB100-205

Unit Size: 100 ul

Store at 4C. Do not freeze.

www.novusbio.com technical@novusbio.com

**Publications: 17**

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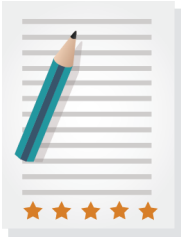


# NB100-205

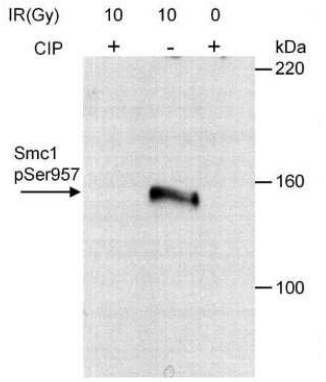
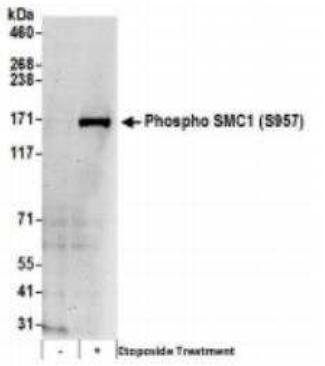
SMC1 [p Ser957] Antibody - BSA Free

| Product Information | |
|---|---|
| **Unit Size** | 100 ul |
| **Concentration** | 1.0 mg/ml |
| **Storage** | Store at 4C. Do not freeze. |
| **Clonality** | Polyclonal |
| **Preservative** | 0.09% Sodium Azide |
| **Isotype** | IgG |
| **Purity** | Immunogen affinity purified |
| **Buffer** | Tris-Citrate/Phosphate (pH 7.0 - 8.0) |
| **Target Molecular Weight** | 143 kDa |

| Product Description | |
|---|---|
| **Host** | Rabbit |
| **Gene ID** | 8243 |
| **Gene Symbol** | SMC1A |
| **Species** | Human |
| **Immunogen** | Immunogen for this antibody was a phosphorylated synthetic peptide, which represented a portion of human Structural Maintenance of Chromosomes 1 (GeneID 8243) around serine 957 according to the numbering given in entry (NP_006297.2) |

| Product Application Details | |
|---|---|
| **Applications** | Western Blot, Immunoprecipitation |
| **Recommended Dilutions** | Western Blot 1:200-1:2, Immunoprecipitation 2 - 6 ug/mg of lysate |

## Images

| | |
|---|---|
| Western Blot: SMC1 [p Ser957] Antibody [NB100-205] - Whole cell extracts from HeLa cells (30 ug/lane) that were irradiated with 10 Gy of ionizing radiation or mock irradiated. Irradiated lysate was then treated with calf intestinal phosphatase (CIP) or left untreated. Antibody used at 0.1 ug/ml. |  |
| SMC1 [p Ser957] Antibody [NB100-205] - Whole cell lysate (50 ug) from 293T cells treated with 100 uM EPE for 4 hours (+) or mock treated (-) cells. Antibody: Affinity purified rabbit antiPhospho SMC1 (S957) antibody used for WB at 0.5 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes. |  |

## Publications

Nayler S, Gatei M, Kozlov S et al. Embryonic Stem Cells/Induced Pluripotent Stem (iPS) Cells: Induced Pluripotent Stem Cells from Ataxia-Telangiectasia Recapitulate the Cellular Phenotype Stem Cells Transl Med 2012-12-01 [PMID: 23197857]

Valdez BC, Li Y, Murray D et al. Comparison of the cytotoxicity of cladribine and clofarabine when combined with fludarabine and busulfan in AML cells: Enhancement of cytotoxicity with epigenetic modulators. Exp Hematol 2015-06-01 [PMID: 25704054]

Valdez BC, Murray D, Nieto Y et al. Synergistic cytotoxicity of the DNA alkylating agent busulfan, nucleoside analogs and suberoylanilide hydroxamic acid in lymphoma cell lines. Leuk Lymphoma 2012-05-01 [PMID: 22023523] (Human)

Li T, Chanda D, Zhang Y et al. Glucose stimulates cholesterol 7alpha-hydroxylase gene transcription in human hepatocytes. J Lipid Res 2010-04-01 [PMID: 19965590] (Human)

Valdez BC, Li Y, Murray D et al. The synergistic cytotoxicity of clofarabine, fludarabine and busulfan in AML cells involves ATM pathway activation and chromatin remodeling. Biochem Pharmacol 2011-01-15 [PMID: 20933509] (WB, Human)

Valdez BC, Nieto Y, Murray D et al. Epigenetic modifiers enhance the synergistic cytotoxicity of combined nucleoside analog-DNA alkylating agents in lymphoma cell lines. Exp Hematol 2012-10-01 [PMID: 22687754] (WB, Human)

Williamson, C T, Kubota, E, Hamill, J D et al. Enhanced cytotoxicity of PARP inhibition in mantle cell lymphoma harbouring mutations in both ATM and p53 EMBO Mol Med. 2012-03-27 [PMID: 22416035] (WB, Human)

Kodama M, Otsubo C, Hirota T et al. Requirement of ATM for rapid p53 phosphorylation at Ser46 without Ser/Thr-Gln sequences. Mol Cell Biol 2010-04-01 [PMID: 20123963]

Pereg Y, Lam S, Teunisse A et al. Differential roles of ATM- and Chk2-mediated phosphorylations of Hdmx in response to DNA damage. Mol Cell Biol 2006-09-01 [PMID: 16943424]

Dar, I, Biton, S, Shiloh, Y, Barzilai, A. Analysis of the Ataxia Telangiectasia Mutated-Mediated DNA Damage Response in Murine Cerebellar Neurons, . 26, 7767-7774. 2006-01-01 [PMID: 16855104]

Biton S, Dar I, Mittelman L et al. Nuclear ataxia-telangiectasia mutated (ATM) mediates the cellular response to DNA double strand breaks in human neuron-like cells. J Biol Chem 2006-06-01 [PMID: 16627474]

Goodarzi, A et al. Autophosphorylation of ataxia-telangiectasia mutated is regulated by protein phosphatase 2A. The EMBO Journal 23: 4451-4461. 2004-01-01 [PMID: 15510216]

More publications at http://www.novusbio.com/NB100-205

**Novus Biologicals USA**
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

**Bio-Techne Canada**
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

**Bio-Techne Ltd**
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

**General Contact Information**
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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