

Anti-MDC1

Catalog# SMC-197D

Size: 100µg

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This product is for *in vitro* research use only and is not intended for use in humans or animals

StressMarq

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Product	Mouse anti-MDC1 antibody; monoclonal
Clone	P2B11
Immunogen	GST-tagged recombinant protein corresponding to mouse MDC1 at and around the N-terminus.
Host and Subclass	Mouse, IgG1
Cited Applications	WB, IF
Specificity	Detects ~184kDa. This antibody recognizes MDC1 at and around the N-terminus.
Species cross-reactivity	Mouse, Human, Chimpanzee, Bovine.
Format	Protein G Purified. In PBS pH7.4, 50% glycerol and 0.09% sodium azide
Concentration and working dilution	1mg/mL; WB 1:1000 dilution
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

Selected References

1. Lou Z., *et al.* (2004) *J Biol Chem.* 279(45): 46359-46362.
2. Luo K., Yuan J, Lou Z. (2011) *J Biol Chem.* 286(32): 28192-28199.
3. Strauss C., Halevy T., Macarov M., Argaman L., and Goldbery M. (2011) *DNA Repair (Amst.)* 10(8): 806-814.
4. Wilson K.A., *et al.* (2011) *Mol Cancer Res.* 9(6): 766-781.

Certificate of Analysis

1.0 µg/ml of SMC-197 was sufficient for detection of MDC1 in 20ug of Hela cell lysate by ECL immunoblot analysis.

Scientific Background

MDC1, mediator of DNA damage checkpoint protein 1, plays a role in checkpoint mediated cell cycle arrest in response to DNA damage, within S phase and G2/M. It is also thought to act as a scaffold protein during recruitment of DNA repair and signal transduction proteins to discrete foci of DNA damage that are marked by phosphorylation of histone H2A.X on S139.

Material Safety Data Sheet

Anti-MDC1 (Monoclonal Antibody) SMC-197

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Sodium Azide	26628-22-8	0.09

Physical Data

This product consists of mouse immunoglobulin in PBS containing 0.09% sodium azide shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.