

## Anti-MDC1 Monoclonal Antibody

Catalog Number: M01252

### About MDC1

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.

### Overview

Product Name	Anti-MDC1 Monoclonal Antibody
Reactive Species	Bovine, Human, Mouse, Chimpanzee
Description	Boster Bio Anti-MDC1 Monoclonal Antibody catalog # M01252. Tested in IF, ICC, WB applications. This antibody reacts with Human, Mouse.
Application	IF, ICC, WB
Clonality	Monoclonal P2B11
Formulation	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Storage Instructions	Store at -20°C for one year. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	Q5PSV9

### Technical Details

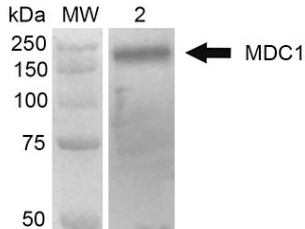
Immunogen	GST-tagged recombinant protein corresponding to mouse MDC1 at and around the N-terminus
Predicted Reactive Species	Chimpanzee, Hamster
Cross Reactivity	Detects ~184kDa. This antibody recognizes MDC1 at and around the N-terminus.
Isotype	IgG1
Form	liquid
Concentration	1 mg/ml
Purification	Protein G Purified
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

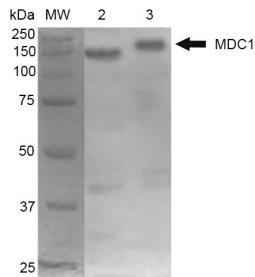
Boster Bio's internal QC testing used:

WB (1:2000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

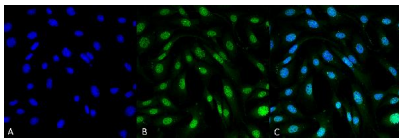
## Anti-MDC1 Monoclonal Antibody (M01252) Images



Western blot analysis of Human Embryonic kidney epithelial cell line (HEK293T) lysate showing detection of 184 kDa MDC1 protein using Mouse Anti-MDC1 Monoclonal Antibody, Clone P2B11 (SMC-197). Lane 1: MW ladder. Lane 2: 293Trap cell lysates. Load: 30 µg. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-MDC1 Monoclonal Antibody (SMC-197) at 1:1000 for 2 hours RT. Secondary Antibody: Goat Anti-Mouse HRP: IgG at 1:2000 for 60 min at RT. Color Development: ECL solution for 5 min in RT. Predicted/Observed Size: 184 kDa.



Western blot analysis of Mouse Cortex and Cerebellum showing detection of 184 kDa MDC1 protein using Mouse Anti-MDC1 Monoclonal Antibody, Clone P2B11 (SMC-197). Lane 1: MW ladder. Lane 2: Mouse Cortex. Lane 3: Mouse Cerebellum. Load: 10 µg. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-MDC1 Monoclonal Antibody (SMC-197) at 1:1000 for 2 hours RT. Secondary Antibody: Goat Anti-Mouse at 1:2000 for 60 min at RT. Color Development: ECL solution for 5 min in RT. Predicted/Observed Size: 184 kDa.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-MDC1 Monoclonal Antibody, Clone P2B11 (SMC-197). Tissue: Fibroblast cell line (NIH 3T3). Species: Mouse. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-MDC1 Monoclonal Antibody (SMC-197) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: DAPI (blue) nuclear stain at 1:5000 for 5 min RT. Localization: Nucleus. Magnification: 60X.

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