# Mouse MDC1 Monoclonal Antibody | anti-Mdc1 antibody

MDC1 Antibody: RPE

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA102901** | **Mouse** | **Mouse, Human, Chimpanzee, Bovine** | **Western Blot, Immunofluorescence** |

## PRODUCT SYNONYMS

MDC1; Monoclonal Antibody; MDC1 Antibody: RPE; Nuclear factor with BRCT domains1; mediator of DNA damage checkpoint 1; anti-Mdc1 antibody

## PRODUCT SPECIFICATIONS

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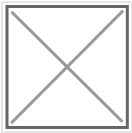
|---|---|
| **Host** | Mouse |
| **Reactivity** | Mouse, Human, Chimpanzee, Bovine |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone Number** | P2B11 |
| **Form/Format** | Protein G Purified |
| **Concentration** | 1mg/mL (varies by lot) |
| **Sequence Length** | 1708 |
| **Applicable Applications for anti-Mdc1 antibody** | WB (Western Blot), IF (Immunofluorescence) |
| **Conjugate** | RPE |
| **Storage Buffer** | PBS pH7.4, 50% glycerol, 0.09% sodium azide |
| **Preparation and Storage** | -20 degree C |

## IMAGES

**WB (Western Blot)**
Western Blot analysis of Mouse Cortex and Cerebellum showing detection of 184 kDa MDC1 protein using Mouse Anti-MDC1 Monoclonal Antibody, Clone P2B11. Lane 1: MW ladder. Lane 2: Mouse Cortex. Lane 3: Mouse Cerebellum. Load: 10 ug. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-MDC1 Monoclonal Antibody 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.



**WB (Western Blot)**
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. Lane 1: MW ladder. Lane 2: 293Trap cell lysates. Load: 30 ug. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-MDC1 Monoclonal Antibody 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.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-Mdc1 antibody** | **Background Info:** Detects ~184kDa. This antibody recognizes MDC1 at or around the N-terminus<br><br>**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. |

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| **Product Categories/Family for anti-Mdc1 antibody** | Oxidative Stress |
| **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. |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 132626693 |
| **NCBI GeneID** | 240087 |
| **NCBI Accession #** | NP_001010833.2 |
| **NCBI GenBank Nucleotide #** | NM_001010833.2 |
| **UniProt Accession #** | Q5PSV9; Q52KG1; Q5U4D3; Q6ZQH7 |
| **Molecular Weight** | 184,670 Da |
| **NCBI Official Full Name** | mediator of DNA damage checkpoint protein 1 |
| **NCBI Official Synonym Full Names** | mediator of DNA damage checkpoint 1 |
| **NCBI Official Symbol** | Mdc1 |
| **NCBI Official Synonym Symbols** | Nfbd1; AA413496; mKIAA0170; 6820401C03 |
| **NCBI Protein Information** | mediator of DNA damage checkpoint protein 1; mediation of DNA damage checkpoint 1 |
| **UniProt Protein Name** | Mediator of DNA damage checkpoint protein 1 |
| **UniProt Gene Name** | **Mdc1** |
| **UniProt Synonym Gene Names** | Kiaa0170 |
| **UniProt Entry Name** | MDC1_MOUSE |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/mdc1-antibody-clone-p2b11-western-blot-immunofluorescence-elisa/102901