Mouse MDC1 Monoclonal Antibody | anti-Mdc1 antibody

MDC1 Antibody: ATTO 594

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA102921	**Mouse**	**Mouse, Human, Chimpanzee, Bovine**	**Western Blot, Immunofluorescence**

PRODUCT SYNONYMS

MDC1; Monoclonal Antibody; MDC1 Antibody: ATTO 594; Nuclear factor with BRCT domains1; mediator of DNA damage checkpoint 1; anti-Mdc1 antibody

PRODUCT SPECIFICATIONS

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	ATTO 594
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

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

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

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/102921