Datasheet for ABIN2484141

anti-MDC1 antibody (N-Term) (Atto 390)

3 Images

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Overview

Quantity:	100 µg
Target:	MDC1
Binding Specificity:	N-Term
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MDC1 antibody is conjugated to Atto 390
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	GST-tagged recombinant protein corresponding to mouse MDC1 at and around the N-terminus
Clone:	P2B11
Isotype:	IgG1
Specificity:	Detects ~184 kDa. This antibody recognizes MDC1 at and around the N-terminus.
Cross-Reactivity:	Chimpanzee, Cow, Human, Mouse
Purification:	Protein G Purified

Target Details

Target:	MDC1
Alternative Name:	MDC1 (MDC1 Products)

Target Details

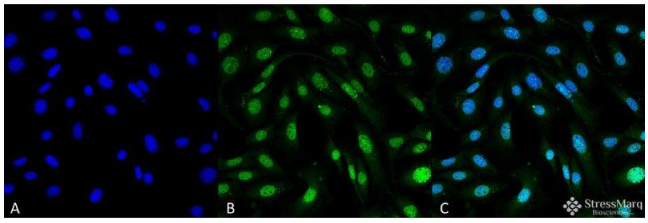
Background:	MDC1, mediator of DNA damage checkpoint protein 1, plays a role in checkpoint mediated cell cycle arrest in response to DNA damage, within S phase and G2/M. It is also thought to act as a scaffold protein during recruitment of DNA repair and signal transduction proteins to discrete foci of DNA damage that are marked by phosphorylation of histone H2A.X on S139.
Gene ID:	240087
NCBI Accession:	NP_001010833
UniProt:	Q5PSV9

Application Details

Application Notes:	• WB (1:2000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	0.5 µg/ml of ABIN2484141 was sufficient for detection of MDC1 in 10 µg of HeLa cell lysate by ECL immunoblot analysis.
Restrictions:	For Research Use only

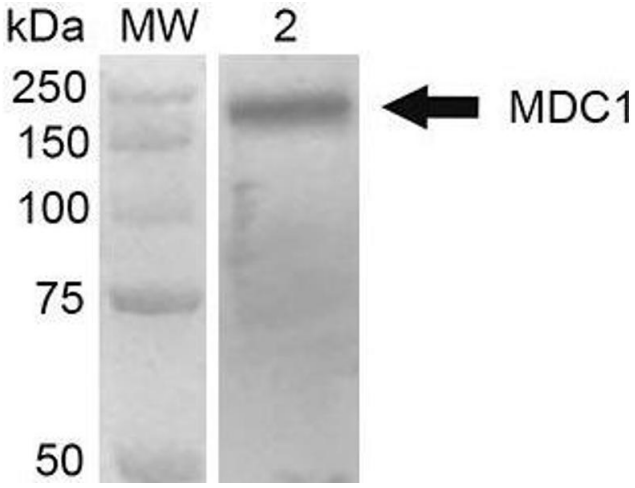
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



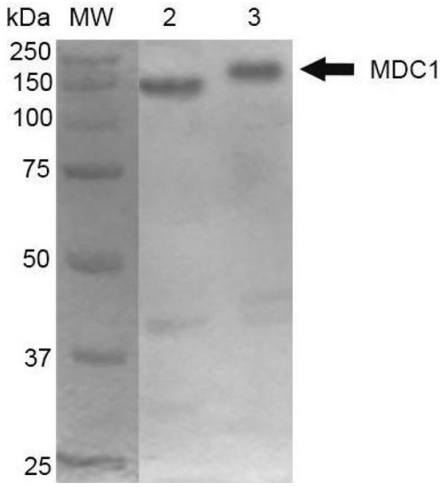
Immunofluorescence (fixed cells)

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-MDC1 Monoclonal Antibody, Clone P2B11 . Tissue: Fibroblast cell line (NIH 3T3). Species: Mouse. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-MDC1 Monoclonal Antibody 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.



Western Blotting

Image 2. Western Blot analysis of Human 293Trap cell lysates 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 µg. 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.



Western Blotting

Image 3. 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 µg. 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.