# antibodies -online.com







**Images** 



# Overview

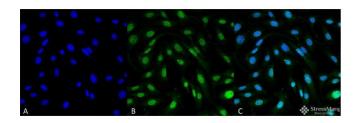
Alternative Name:

Quantity:	100 μg
Target:	MDC1
Binding Specificity:	N-Term
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MDC1 antibody is un-conjugated
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:	lgG1
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

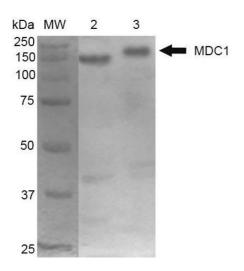
MDC1 (MDC1 Products)

# **Target Details**

rarget 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:	<ul> <li>WB (1:2000)</li> <li>ICC/IF (1:100)</li> <li>optimal dilutions for assays should be determined by the user.</li> </ul>
Comment:	$0.5~\mu g/ml$ of ABIN863114 was sufficient for detection of MDC1 in 10 $\mu g$ 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:	-20 °C
Storage Comment:	-20°C



# kDa MW 2 250 150 100 75



## 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: lgG 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.