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Datasheet for 200-301-G12

Mdc1 Antibody

Overview

Description:	Anti-Mdc1 (MOUSE) Monoclonal Antibody - 200-301-G12
Item No.:	200-301-G12
Size:	100 µg
Applications:	IF, WB
Reactivity:	Human, Mouse, Bovine, Chimpanzee
Host Species:	Mouse

Product 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.
Synonyms:	Nuclear factor with BRCT domains1, mediator of DNA damage checkpoint 1, Kiaa0170
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	P2B11
Format:	IgG1

Target Details

Gene Name:	Mdc1
Reactivity:	Human, Mouse, Bovine, Chimpanzee
Immunogen Type:	Recombinant Protein
Immunogen:	MDC1 Antibody was produced in mice by repeated immunizations with a recombinant protein corresponding to mouse MDC1 at and around the N-terminus region.

Purity/Specificity:	Anti-MDC1 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with MDC1 from Human, Mouse, Chimpanzee, and Bovine based on 100% homology with the immunizing sequence. This antibody recognizes MDC1 at and around the N-terminus. Cross-reactivity with MDC1 from other sources has not been determined. Oxidative Stress research.
Relevant Links:	• NCBI - NP_001010833.2 • GeneID - 240087 • UniProtKB - Q5PSV9

Application Details

Tested Applications:	IF, WB
Application Note:	Anti-MDC1 Antibody is suitable for use in WB and IF microscopy. Expect a band approximately ~184kDa corresponding to specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1:100
WB:	1:2000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

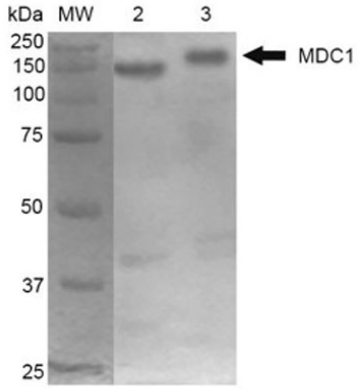
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

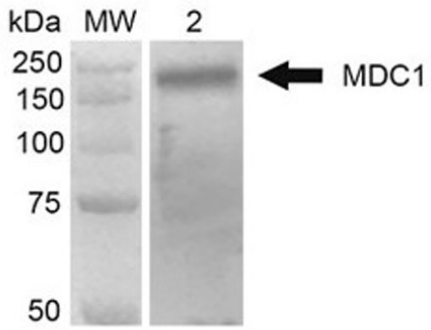
Expiration: Expiration date is one (1) year from date of receipt.

Images

Immunofluorescence Microscopy
Immunofluorescence of Mouse Anti-MDC1 Monoclonal Antibody.
Tissue: mouse fibroblast NIH/3T3 cell line.
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 Blot
Western Blot of Anti-MDC1.
Load: 10 µg. Lane 1: MW ladder. Lane 2: Mouse Cortex. Lane 3: Mouse Cerebellum.
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.



Western Blot
Western Blot of Anti-MDC1.
Load: 30 µg. Lane 1: MW ladder. Lane 2: Human Embryonic kidney epithelial cell line (HEK293T) cell lysates.
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.

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