

BRCA1 Monoclonal Antibody (MS110)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	MS110
Conjugate	Unconjugated
Immunogen	Recombinant full-length human BRCA1
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with 1mg/mL BSA, 30% glycerol
Contains	0.05% sodium azide
Storage Conditions	-20°C
RRID	AB_2536842

Applications	Tested	Dilution	Published
Western Blot (WB)	✓	Assay Dependent	2 Publications
Immunocytochemistry (ICC)	✓	Assay Dependent	
Immunofluorescence (IF)	✓	Assay Dependent	
Immunohistochemistry (Frozen) (IHC (F))	✓	1:50-1:100	
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:50-1:100	
Immunoprecipitation (IP)	✓	Assay Dependent	

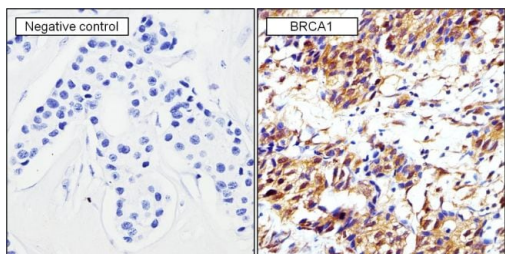
Product Specific Information

Antibody binding site (i.e.epitope) has been mapped within the N-terminal (1-304 amino acids) of Human BRCA1.

Product Images For BRCA1 Monoclonal Antibody (MS110)

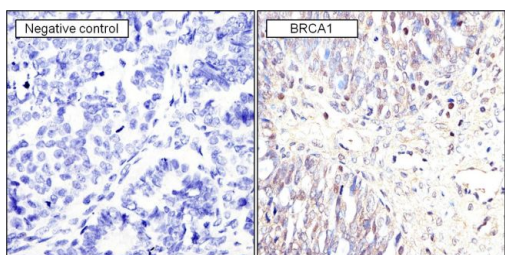
BRCA1 Antibody (MA1-137) in IHC (P)

Immunohistochemistry analysis of BRCA1 was performed on human breast carcinoma tissue. To expose target proteins, antigen retrieval was performed by microwaving tissues for 8-15 minutes in 10mM sodium citrate buffer (pH 6.0). Following antigen retrieval, endogenous peroxidases were blocked with 3% hydrogen peroxide-methanol for 15 min at room temperature. Tissue slides were washed with deionized water and PBS, and then blocked in 3% BSA-PBS for 30 min at room temperature. Tissues were probed with a BRCA1 monoclonal antibody (Product # MA1-137) diluted 1:100 in 3% BSA-PBS (right panel) or incubated with buffer alone not containing primary antibody as a negative control (left panel), overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



BRCA1 Antibody (MA1-137) in IHC (P)

Immunohistochemistry analysis of BRCA1 was performed on human ovary carcinoma tissue. To expose target proteins, antigen retrieval was performed by microwaving tissues for 8-15 minutes in 10mM sodium citrate buffer (pH 6.0). Following antigen retrieval, endogenous peroxidases were blocked with 3% hydrogen peroxide-methanol for 15 min at room temperature. Tissues slides were washed with deionized water and PBS, and then blocked in 3% BSA-PBS for 30 min at room temperature. Tissues were probed with a BRCA1 monoclonal antibody (Product # MA1-137) diluted 1:50 in 3% BSA-PBS (right panel) or incubated with buffer alone not containing primary antibody as a negative control (left panel), overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



Western Blot (2)

Nature

The metabolic function of cyclin D3-CDK6 kinase in cancer cell survival.

"MA1-137 was used in Western Blotting to show that the cyclin D3-CDK6 kinase phosphorylates and inhibits the catalytic activity of two key enzymes in the glycolytic pathway."

Authors: Wang H,Nicolay BN,Chick JM,Gao X,Geng Y,Ren H,Gao H,Yang G,Williams JA,Suski JM,Keibler MA,Sicinska E,Gerdemann U,Haining WN,Roberts TM,Polyak K,Gygi SP,Dyson NJ,Sicinski P

Species
Human

Dilution
Not Cited

Year
2017

Nature communications

BRCA1 haploinsufficiency for replication stress suppression in primary cells.

"MA1-137 was used in western blot to assess the functionality of BRCA1 in the heterozygous state."

Authors: Pathania S,Bade S,Le Guillou M,Burke K,Reed R,Bowman-Colin C,Su Y,Ting DT,Polyak K,Richardson AL,Feunteun J,Garber JE,Livingston DM

Species
Human

Dilution
1:1000

Year
2014

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