

BRCA1 Monoclonal Antibody (MU)

Catalog Number MA1-16619

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG2b, kappa	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	1 µg per million cells
Type	Antibody	Immunoprecipitation (IP)	1:10-1:500
Clone	MU	Western Blot (WB)	2-4 µg/mL
Immunogen	Human BRCA1 containing residues 1314-1864.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1.9 mg/mL		
Purification	Protein G		
Storage buffer	tris glycine with 0.15M NaCl		
Contains	0.05% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

Suggested positive control: MCF-7 whole cell lysates.

Background/Target Information

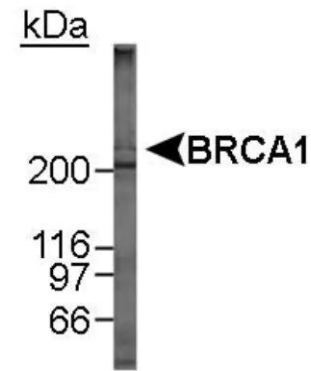
BRCA1 (breast and ovarian cancer susceptibility protein 1) is a nuclear phosphoprotein that plays a role in maintaining genomic stability and acts as a tumor suppressor in combination with other tumor suppressors, DNA damage sensors, and signal transducers to form a large multi-subunit protein complex known as BASC (for BRCA1 associated genome surveillance complex). BRCA1 associates with RNA polymerase II, and through the C terminal domain, also interacts with histone deacetylase complex. The BRCA1 protein thus plays a role in transcription, DNA repair of double-stranded breaks, and recombination. Mutations in the BRCA1 gene are responsible for approximately 40% of inherited breast cancers and more than 80% of inherited breast and ovarian cancers. Alternative splicing plays a role in modulating the subcellular localization and physiological function of this gene. Many alternatively spliced transcript variants, some of which are disease-associated mutations, have been described for this gene, but the full-length natures of only some of these variants has been described. A related pseudogene, which is also located on chromosome 17, has been identified.

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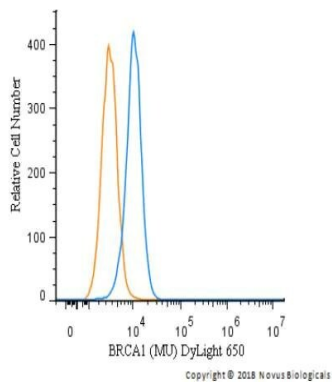
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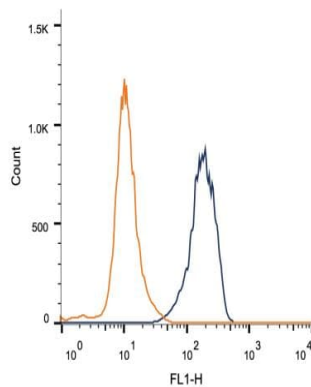
BRCA1 Antibody (MA1-16619) in WB

Western blot analysis of BRCA1 in MCF-7 whole cell lysate. Samples were incubated in BRCA1 monoclonal antibody (Product # MA1-16619). 2 minute ECL exposure.



BRCA1 Antibody (MA1-16619) in Flow

Flow cytometry of BRCA1 in MCF7 cells. Samples were incubated in BRCA1 monoclonal antibody (Product # MA1-16619) using a dilution of 2.5 µg/mL for 30 minutes at room temperature. Antibody (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Both antibodies were conjugated to DyLight 650.



BRCA1 Antibody (MA1-16619) in Flow

Flow cytometry of BRCA1 in 1 x 10⁶ MCF-7 cells. Samples were incubated in BRCA1 monoclonal antibody (Product # MA1-16619) using a dilution of 1 µg/1x10⁶ cells. Antibody (dark blue). Isotype control shown in orange.

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