Product Datasheet

BRCA1 Antibody (MU) - BSA Free
NB100-600

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 3

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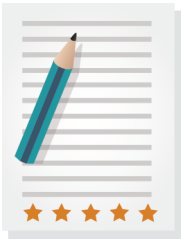
Updated 2/21/2025 v.20.1



NB100-600

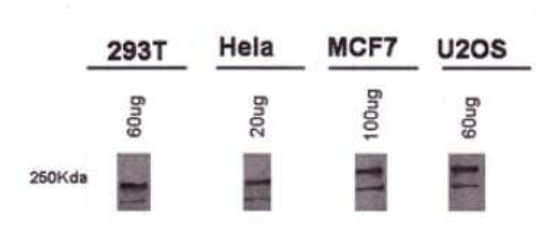
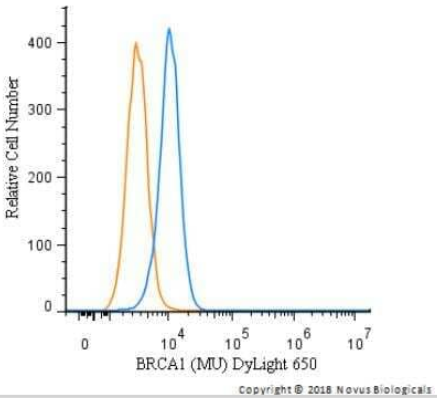
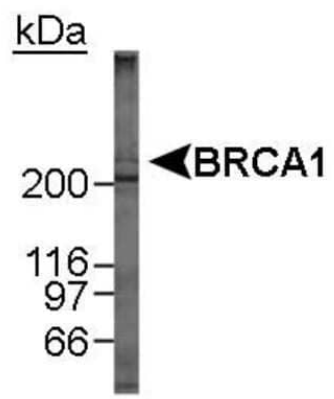
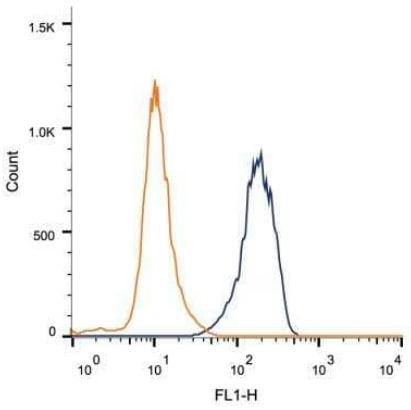
BRCA1 Antibody (MU) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	MU
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein G purified
Buffer	Tris-Glycine, 0.15 M NaCl
Target Molecular Weight	240 kDa

Product Description	
Host	Mouse
Gene ID	672
Gene Symbol	BRCA1
Species	Human
Immunogen	Human BRCA1 corresponding to residues 1314-1864 [UniProt# P38398]

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunoprecipitation
Recommended Dilutions	Western Blot 2 - 4 ug/mL, Flow Cytometry 1 ug per million cells, Immunoprecipitation 1:10 - 1:500
Application Notes	In Western blot a band is observed at ~220-240 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Western Blot: BRCA1 Antibody (MU) [NB100-600] - Detection of BRCA1 using NB100-600.	
Flow Cytometry: BRCA1 Antibody (MU) [NB100-600] - An intracellular stain was performed on MCF7 cells with BRCA1 Antibody [MU] NB100-600C (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to DyLight 650.	
Western Blot: BRCA1 Antibody (MU) [NB100-600] - Detection of BRCA1 in MCF-7 whole cell lysate using NB100-600. 2 minute ECL exposure.	
Flow Cytometry: BRCA1 Antibody (MU) [NB100-600] - Intracellular flow cytometric staining of 1 x 10^6 MCF-7 cells using BRCA1 antibody (dark blue). Isotype control shown in orange. Antibody at 1 ug/1 x 10^6 cells was used.	

Publications

Martin N T, Nakamura K et al. Homozygous mutation of MTPAP causes cellular radiosensitivity and persistent DNA double-strand breaks. Cell Death Dis 2014-03-20 [PMID: 24651433] (ICC/IF, Human)

Aglipay JA, Martin SA, Tawara H et al. ATM activation by ionizing radiation requires BRCA1-associated BAAT1. J Biol Chem 2006-04-01 [PMID: 16452482]

Okada S, Ouchi T. Cell cycle differences in DNA damage-induced BRCA1 phosphorylation affect its subcellular localization. J Biol Chem 2003-01-01 [PMID: 12427729]

Procedures

Serum protocol for BRCA1 Antibody (NB100-600)
BRCA1 Antibody (MU):
Western Blot Protocol

1. Perform SDS-PAGE (3-8%) on samples to be analyzed, loading 50ug of total protein per lane.

2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.

3. Stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.

4. Rinse the blot in TBS for approximately 5 minutes.

5. Block the membrane using 5% non-fat dry milk in TBS + 0.5% BSA for 1 hour.

6. Dilute the mouse anti-BRCA1 primary antibody (NB 100-600) in blocking buffer and incubate 2-2.5 hours at room temperature.

7. Wash the membrane in water for 5 minutes and apply the diluted mouse-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.

8. Wash the blot in TBS containing 0.05-0.1% Tween-20 for 10-20 minutes.

9. Wash the blot in type I water for an additional 10-20 minutes (this step can be repeated as required to reduce background).

10. Apply the detection reagent of choice in accordance with the manufacturer's instructions (Amersham's ECL is the standard reagent used at Novus Biologicals).

Note: Tween-20 can be added to the blocking buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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Products Related to NB100-600

NB820-59465	MCF-7 Whole Cell Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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