

Product Datasheet

BRCA1 Antibody (RAY) - BSA Free NB100-598

Unit Size: 0.1 ml

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

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NB100-598

BRCA1 Antibody (RAY) - 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	RAY
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	230 kDa

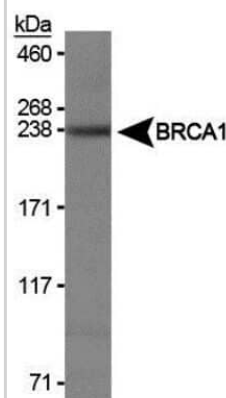
Product Description	
Host	Mouse
Gene ID	672
Gene Symbol	BRCA1
Species	Human
Immunogen	Human BRCA1 corresponding to residues 1314-1864 [UniProt# P38398]

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 2-4 ug/ml, Flow Cytometry 1 ug per million cells, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:10-1:500, CyTOF-ready
Application Notes	This BRCA1 antibody is useful for Western blot, Immunocytochemistry/Immunofluorescence and Immunoprecipitation. In Western blot a band was observed ~220-240 kDa. This antibody is CyTOF ready.

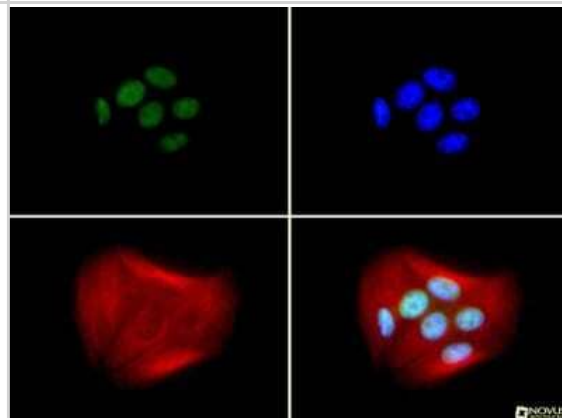


Images

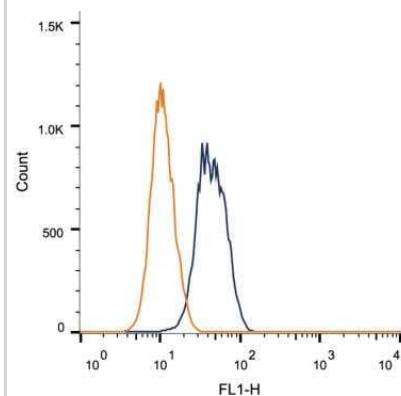
Western Blot: BRCA1 Antibody (RAY) [NB100-598] - Analysis of BRCA1 on MCF7 lysate.



Immunocytochemistry/Immunofluorescence: BRCA1 Antibody (RAY) [NB100-598] - BRCA1 (RAY) antibody was tested in MCF-7 cells with FITC (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



Flow Cytometry: BRCA1 Antibody (RAY) [NB100-598] - Intracellular flow cytometric staining of 1×10^6 MCF-7 cells using BRCA1 antibody (dark blue) and isotype control (orange). An antibody concentration of $1 \mu\text{g}/1 \times 10^6$ cells was used.



Publications

Gonçalves AB, Hasselbalch SK, Joensen BB et al. CEP78 functions downstream of CEP350 to control biogenesis of primary cilia by negatively regulating CP110 levels eLife 2021-07-14 [PMID: 34259627]

Kostyuk SV, Ershova ES, Martynov AV et al. In Vitro Analysis of Biological Activity of Circulating Cell-Free DNA Isolated from Blood Plasma of Schizophrenic Patients and Healthy Controls-Part 2: Adaptive Response Genes 2022-12-04 [PMID: 36553550] (FLOW, Human)

Vanderperre B, Lucier JF, Bissonnette C et al. Direct Detection of Alternative Open Reading Frames Translation Products in Human Significantly Expands the Proteome. PLoS One. 2013-08-12 [PMID: 23950983] (ICC/IF, Human)

Kluk BJ, Fu Y, Formolo TA et al. BP1, an isoform of DLX4 homeoprotein, negatively regulates BRCA1 in sporadic breast cancer. Int J Biol Sci 2010-09-10 [PMID: 20877436] (WB, Human)

Yin J, Wei ZJ, Li KB et al. Identification and molecular characterization of a new member of the peritrophic membrane proteins from the meadow moth, *loxostege sticticalis*. Int J Biol Sci;6(5):491-8. 2010-09-06 [PMID: 20827401]

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

Western Blot protocol for BRCA1 Antibody (NB100-598)

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 100-598) 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 NB100-598

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)
NB100-598F	BRCA1 Antibody (RAY) [FITC]

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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