

Product Datasheet

BRCA1 Antibody (KEN) - BSA Free NB100-599

Unit Size: 0.1 ml

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

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NB100-599

BRCA1 Antibody (KEN) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.5 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	KEN
Preservative	0.05% Sodium Azide
Isotype	IgG3 Kappa
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	240 kDa

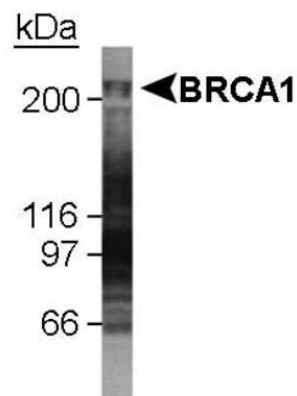
Product Description	
Description	Novus Biologicals Mouse BRCA1 Antibody (KEN) - BSA Free (NB100-599) is a monoclonal antibody validated for use in WB, ICC/IF and IP. Anti-BRCA1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	672
Gene Symbol	BRCA1
Species	Human
Immunogen	Human BRCA1 corresponding to residues 1314-1864 [UniProt# P38398]

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

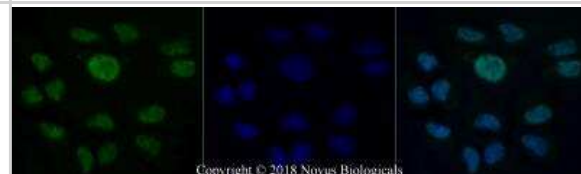


Images

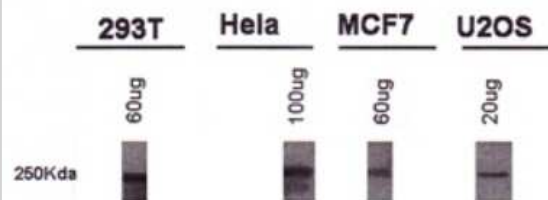
Western Blot: BRCA1 Antibody (KEN) [NB100-599] - Detection of BRCA1 in U2OS whole cell lysate using NB 100-599. 1 minute ECL detection.



Immunocytochemistry/Immunofluorescence: BRCA1 Antibody (KEN) [NB100-599] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-BRCA1 (KEN) at 5 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Western Blot: BRCA1 Antibody (KEN) [NB100-599] - Detection of BRCA1.



Publications

Turner JG, Cui Y, Bauer AA et al. Melphalan and Exportin 1 Inhibitors Exert Synergistic Antitumor Effects in Preclinical Models of Human Multiple Myeloma Cancer Research 2020-12-01 [PMID: 33023948]

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 (NB100-599)

BRCA1 Antibody (KEN):

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 100-599) 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 NB100-599

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96978	Mouse IgG3 Kappa Light Chain Isotype Control (MG3K)

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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