Human BRCA1 C-Terminus Antibody

Monoclonal Mouse IgG_{2B} Clone # 440621

Catalog Number: MAB22101

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BRCA1 C-Terminus.
Source	Monoclonal Mouse IgG_{2B} Clone # 440621
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human BRCA1 C-Terminus Arg1634-Tyr1863 Accession # P38398
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

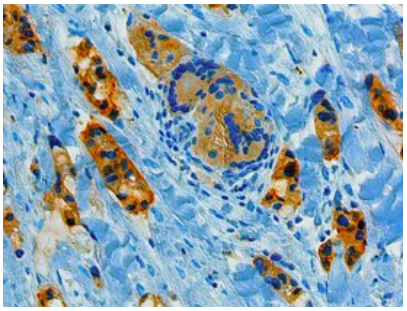
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

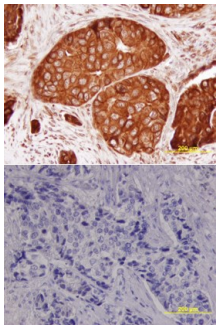
DATA

Immunohistochemistry



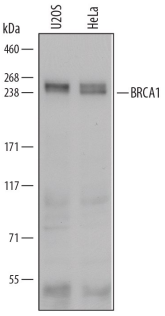
BRCA1 in Human Breast Cancer Tissue. BRCA1 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Human BRCA1 Monoclonal Antibody (Catalog # MAB22101) at 5 µg/mL overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Immunohistochemistry



BRCA1 in Human Breast. BRCA1 was detected in immersion fixed paraffin-embedded sections of human breast array using Human BRCA1 Monoclonal Antibody (Catalog # MAB22101) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Western Blot



Detection of Human BRCA1 by Western Blot. Western blot shows lysates of U2OS human osteosarcoma cell line and HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Human BRCA1 Monoclonal Antibody (Catalog # MAB22101) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF007). A specific band was detected for BRCA1 at approximately 240 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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Monoclonal Mouse IgG_{2B} Clone # 440621

Catalog Number: MAB22101

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The BRCA1 (BReast CAncer gene 1) tumor suppressor protein has many reported functions. In addition to mediating signal transduction in DNA damage and repair responses, BRCA1 forms a heterodimer with BARD1 and regulates transcriptional activity, assisting in the preservation of chromosomal stability. BRCA1 is one of the first proteins recruited to sites of DNA double-strand breaks and serves as part of a scaffold for assembling other DNA damage response or repair factors, including MSH2, MLH1, ATM and PMS2.

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