

Anti-BRCA1 (Breast Marker) Monoclonal Antibody

Catalog Number: M00005

About BRCA1

This gene encodes a nuclear phosphoprotein that plays a role in maintaining genomic stability, and it also acts as a tumor suppressor. The encoded protein combines with other tumor suppressors, DNA damage sensors, and signal transducers to form a large multi-subunit protein complex known as the BRCA1-associated genome surveillance complex (BASC). This gene product associates with RNA polymerase II, and through the C-terminal domain, also interacts with histone deacetylase complexes. This protein thus plays a role in transcription, DNA repair of double-stranded breaks, and recombination. Mutations in this 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.

Overview

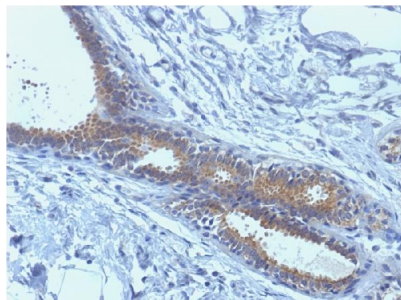
Product Name	Anti-BRCA1 (Breast Marker) Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-BRCA1 (Breast Marker) Monoclonal Antibody (Catalog # M00005). Tested in IHC applications. This antibody reacts with Human.
Conjugate	Biotin
Application	IHC
Clonality	Monoclonal Clone: BRCA1/1398
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P38398

Technical Details

Immunogen	Recombinant human BRCA1 protein fragment (around aa445-620) (exact sequence is proprietary)
Predicted Reactive Species	Chimpanzee
Isotype	IgG1, kappa
Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml

Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Formalin-fixed) (2-5ug/ml for 60 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p>

Anti-BRCA1 (Breast Marker) Monoclonal Antibody (M00005) Images



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Anti-BRCA1 Monoclonal Antibody (BRCA1/1398).

1 Publications Citing This Product

1. PubMed ID: 23276146, Zhang Q, Zhang Q, Cong H, Zhang X. Diagn Pathol. 2012 Dec 31;7:181. Doi: 10.1186/1746-1596-7-181. The Ectopic Expression Of Brca1 Is Associated With Genesis, Progression, And Prognosis Of Breast Cancer In Young Patients.

Visit bosterbio.com/anti-brca1-breast-marker-antibody-m00005-boster.html to see all 1 publications.

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