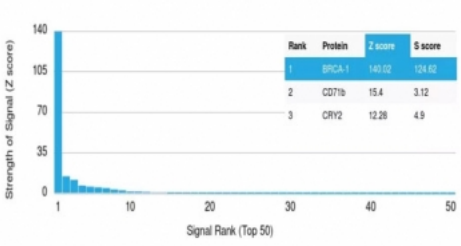
BRCA1 Antibody / Breast Cancer Marker [clone BRCA1/2973] (V5544)

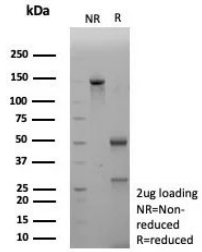
Catalog No.	Formulation	Size
V5544-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5544-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5544SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, Lambda
Clone Name	BRCA1/2973
Purity	Protein A/G affinity
UniProt	P38398
Localization	Cytoplasm, Nucleus
Applications	ELISA
Limitations	This BRCA1 antibody is available for research use only.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using BRCA-1 antibody (clone BRCA1/2973). These results demonstrate the foremost specificity of the BRCA1/2973 mAb. Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (clone MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE analysis of purified, BSA-free BRCA1 antibody (clone BRCA1/2973) as confirmation of integrity and purity.

Description

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.

Additional studies involving homologous recombination, hereditary cancer susceptibility, and genomic stability pathways may benefit from our BRCA1 antibody page featuring clone BRCA1/1398 with HuProt protein microarray specificity validation.

Application Notes

Optimal dilution of the BRCA1 antibody should be determined by the researcher.

Immunogen

A recombinant fragment (within amino acids 445-620) of human BRCA1 protein was used as the immunogen for the BRCA1 antibody.

Storage

Aliquot the BRCA1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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