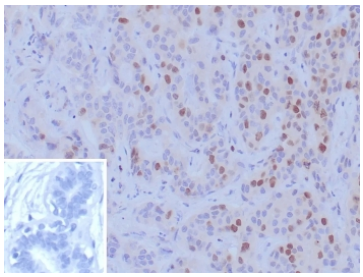
Recombinant BRCA1 Antibody / Breast cancer type 1 susceptibility protein [clone BRCA1/9797R] (V5797)

Catalog No.	Formulation	Size
V5797-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5797-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5797SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	BRCA1/9797R
UniProt	P38398
Localization	Chromosome, Cytoplasm, Nucleus
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This recombinant BRCA1 antibody is available for research use only.



BRCA1 Antibody Human Breast Carcinoma Tissue IHC. Immunohistochemistry staining of FFPE human breast carcinoma tissue with BRCA1 antibody (clone BRCA1/9797R). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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 recombinant BRCA1 antibody should be determined by the researcher.

Immunogen

A portion of the N-terminal 304 amino acids of human BRCA1 protein was used as the immunogen for the recombinant BRCA1 antibody.

Storage

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

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