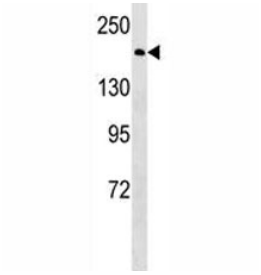
BRCA1 Antibody (F45368)

Catalog No.	Formulation	Size
F45368-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F45368-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P38398
Localization	Nuclear, cytoplasmic
Applications	Western blot: 1:1000
Limitations	This BRCA1 antibody is available for research use only.



BRCA1 antibody western blot analysis in HeLa lysate. Predicted molecular weight ~207 kDa, commonly observed at 207-220 kDa.

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. Many alternatively spliced transcript variants, some of which are disease-associated mutations, have been described for this gene, but the full-length natures of only some of these variants has been described. A related pseudogene, which is also located on chromosome 17, has been identified. [provided by RefSeq].

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

Titration of the BRCA1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 443-472 from the human protein was used as the immunogen for this BRCA1 antibody.

Storage

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

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