

# BRCA1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP17140a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P38398</a>
<b>Other Accession</b>	<a href="#">NP_009228.2</a> , <a href="#">NP_009225.1</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB37460
<b>Antigen Region</b>	443-472

## Additional Information

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<b>Other Names</b>	Breast cancer type 1 susceptibility protein, 632-, RING finger protein 53, BRCA1, RNF53
<b>Target/Specificity</b>	This BRCA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 443-472 amino acids from the N-terminal region of human BRCA1.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	BRCA1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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### Background

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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 nature 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].

## References

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Matsuoka, S., et al. *Science* 316(5828):1160-1166(2007)

Olsen, J.V., et al. *Cell* 127(3):635-648(2006)

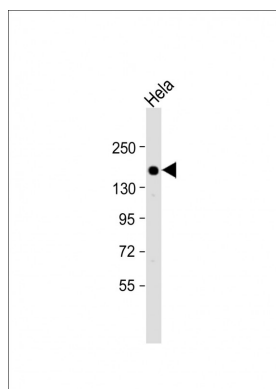
Fabbro, M., et al. *J. Biol. Chem.* 279(30):31251-31258(2004)

Ouchi, M., et al. *J. Biol. Chem.* 279(19):19643-19648(2004)

Orban, T.I., et al. *MP, Mol. Pathol.* 56(4):191-197(2003)

## Images

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Anti-BRCA1 Antibody (N-term) at 1:1000 dilution + HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 208 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.