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Datasheet for ABIN1724848

## anti-BRCA1 antibody (AA 229-335)

5 Images

1 Publication

### Overview

Quantity:	0.1 mg
Target:	BRCA1
Binding Specificity:	AA 229-335
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This BRCA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

### Product Details

Immunogen:	Purified recombinant fragment of human BRCA1 (AA: 229-335) expressed in E. coli.
Clone:	6C6D2
Isotype:	IgG1
Purification:	purified

### Target Details

Target:	BRCA1
Alternative Name:	BRCA1 ( <a href="#">BRCA1 Products</a> )
Background:	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

## Target Details

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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. , , ,

Aliases: IRIS, PSCP, BRCAI, BRCC1, PNCA4, RNF53, BROVCA1, PPP1R53

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Molecular Weight: 207.7 kDa

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Gene ID: 672

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HGNC: 672

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Pathways: [Cell Division Cycle](#), [DNA Damage Repair](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

## Application Details

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Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: Purified antibody in PBS with 0.05 % sodium azide

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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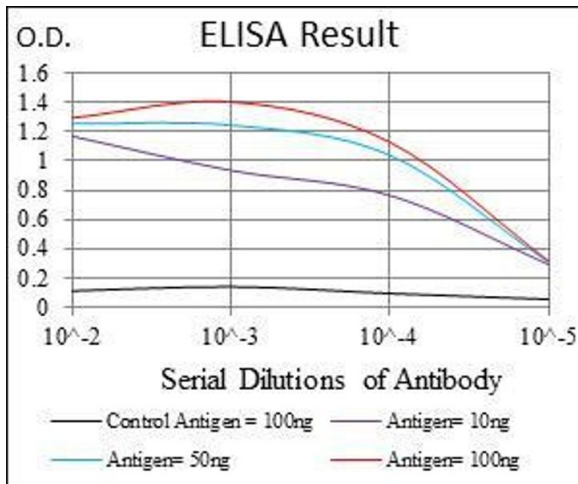
Storage: 4 °C/-20 °C

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Storage Comment: 4°C, -20°C for long term storage

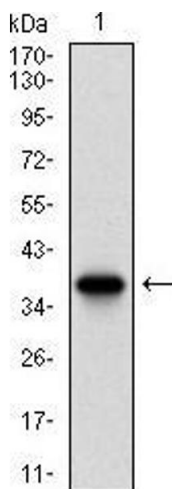
Product cited in: Yoshida, Ishikawa, Niitsu, Nakazato, Watanabe, Shiraishi, Shiina, Hashimoto, Kanahara, Hasegawa, Enohara, Kimura, Iyo, Hashimoto: "Decreased serum levels of mature brain-derived neurotrophic factor (BDNF), but not its precursor proBDNF, in patients with major depressive disorder." in: **PLoS ONE**, Vol. 7, Issue 8, pp. e42676, (2012) ([PubMed](#)).

Images



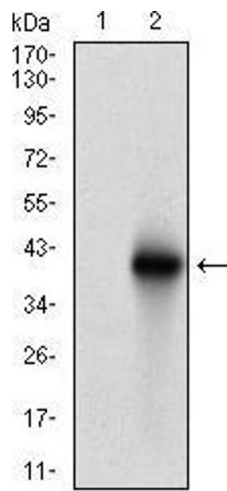
**ELISA**

**Image 1.** Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),



**Western Blotting**

**Image 2.** Western blot analysis using BRCA1 mAb against human BRCA1 recombinant protein. (Expected MW is 37.5 kDa)



### Western Blotting

**Image 3.** Western blot analysis using BRCA1 mAb against HEK293 (1) and BRCA1 (AA: 229-335)-hlgGfc transfected HEK293 (2) cell lysate.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN1724848.