

Datasheet for ABIN3044313 anti-BRCA1 antibody (AA 1661-1863)



[Go to Product page](#)

4 Images

2 Publications

Overview

Quantity:	100 µg
Target:	BRCA1
Binding Specificity:	AA 1661-1863
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Breast cancer type 1 susceptibility protein(BRCA1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Brand:	Picoband™
Immunogen:	E.coli-derived human BRCA1 recombinant protein (Position: E1661-Y1863). Human BRCA1 shares 65% and 66% amino acid (aa) sequence identity with mouse and rat BRCA1, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Breast cancer type 1 susceptibility protein(BRCA1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: breast cancer 1, early onset Protein Name: Breast cancer type 1 susceptibility protein

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: BRCA1

Alternative Name: BRCA1 ([BRCA1 Products](#))

Background: BRCA1, also known as BRCC1, is a gene which mapping to 17q21.3. 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). BRCA1 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. In addition to it, BRCA1 may normally serve as a negative regulator of mammary epithelial cell growth and that this function is compromised in breast cancer either by direct mutation or by alterations in gene expression.

Synonyms: BRAC 1 antibody|BRCA 1 antibody|BRCA1 antibody|BRCA1/BRCA2 containing complex subunit 1 antibody|BRCA1/BRCA2-containing complex, subunit 1 antibody|BRCA1_HUMAN antibody|BRCA1 antibody|BRCC 1 antibody|BRCC1 antibody|Breast and ovarian cancer susceptibility protein 1 antibody|Breast Cancer 1 antibody|Breast Cancer 1 Early Onset antibody|Breast cancer type 1 susceptibility protein antibody|Breast Ovarian Cancer Susceptibility antibody|Breast Ovarian Cancer Susceptibility antibody|BROVCA1 antibody|IRIS antibody|Papillary Serous Carcinoma Of The Peritoneum antibody|PNCA4 antibody|PPP1R53 antibody|Protein phosphatase 1 regulatory subunit 53 antibody|PSCP antibody|RING finger protein 53 antibody|RING finger protein 53 antibody|RNF53 antibody

Gene ID: 672

UniProt: [P38398](#)

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

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by

Application Details

Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

Notes: Tested Species: Species with positive results. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

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

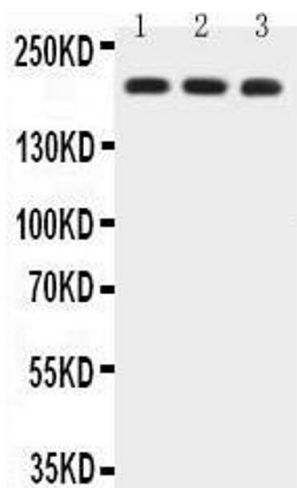
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

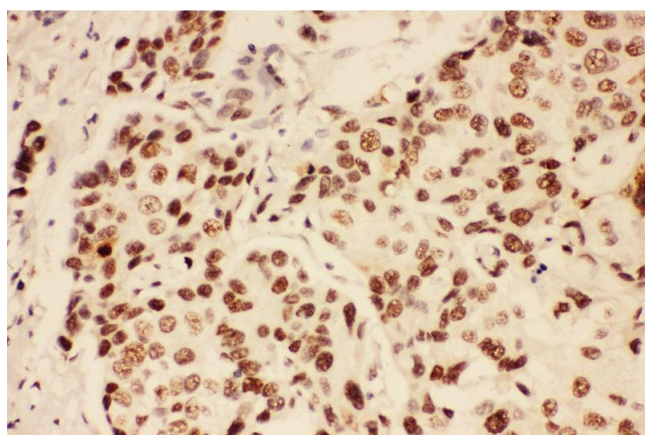
Publications

Product cited in: Liu, Chen, Wang, Yang, Xue, Zhu: "Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells." in: **FEBS letters**, Vol. 589, Issue 8, pp. 897-903, (2015) ([PubMed](#)).



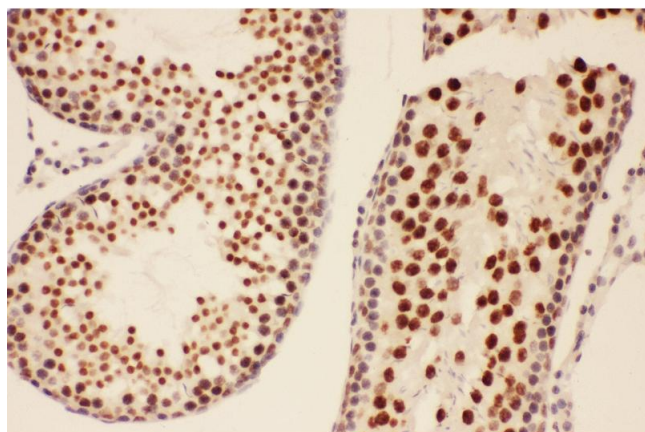
Western Blotting

Image 1. Anti-BRCA1 Picoband antibody, All lanes: Anti-BRCA1 at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: MCF-7 Whole Cell Lysate at 40ug Lane 3: A549 Whole Cell Lysate at 40ug Predicted bind size: 207KD Observed bind size: 207KD



Immunohistochemistry

Image 2. Anti-BRCA1 Picoband antibody, IHC(P): Human Mammary Cancer Tissue



Immunohistochemistry

Image 3. Anti-BRCA1 Picoband antibody, IHC(P): Rat Testis Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3044313.