

## Anti-BRCA1 Antibody Picoband® Fluoro647 Conjugated

Catalog Number: PB9015-Fluoro647

### About BRCA1

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.

### Overview

Product Name	Anti-BRCA1 Antibody Picoband® Fluoro647 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P38398

### Technical Details

Immunogen	E.coli-derived human BRCA1 recombinant protein (Position: E1661-Y1863). Human BRCA1 shares 65% and 66% amino acid (aa) sequences identity with mouse and rat BRCA1, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro647 Excitation Wavelength: 650 nm Emission Wavelength: 665 nm

Suggested Dilutions

Flow Cytometry, Optimal dilutions should be determined by end users.

### 3 Publications Citing This Product

1. PubMed ID: 10.3390/nu11112559, Epigenetic Activation of BRCA1 by Genistein In Vivo and Triple Negative Breast Cancer Cells Linked to Antagonism toward Aryl Hydrocarbon Receptor
2. PubMed ID: 28771232, Liu JC, Lai FN, Li L, Sun XF,, Cheng SF, Ge W, Wang YF, Li L, Zhang XF, De Felici M, Dyce PW, Shen W. Cell Death Dis. 2017 Aug 3;8(8):e2966. doi: 10.1038/cddis.2017.350. Di (2-ethylhexyl) phthalate exposure impairs meiotic progression and DNA dama...
3. PubMed ID: 23276146, Zhang Q, Zhang Q, Cong H, Zhang X. Diagn Pathol. 2012 Dec 31;7:181. Doi: 10.1186/1746-1596-7-181. The Ectopic Expression Of Brca1 Is Associated With Genesis, Progression, And Prognosis Of Breast Cancer In Young Patients.

Visit [bosterbio.com/anti-brca1-picoband-trade-antibody-pb9015-boster.html](http://bosterbio.com/anti-brca1-picoband-trade-antibody-pb9015-boster.html) to see all 3 publications.

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