Product datasheet Anti-BRCA1 Antibody Catalog Number: A00005



Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Information	
Product Name	Anti-BRCA1 Antibody
Gene Name	BRCA1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ICC/IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human BRCA1 recombinant protein (Position: T1681-E1781). Human BRCA1 shares 73.3% and 74.3% amino acid (aa) sequence identity with mouse and rat BRCA1, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	290 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

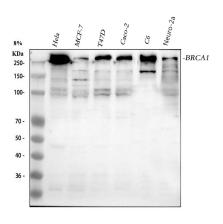
BRCA1, mapped to 17q21.3, is also known as BRCC1. This gene encodes a nuclear phosphoprotein that plays a role in maintaining genomic stability, and it also acts as a tumor suppressor. The encoded protein combines with other tumor suppressors, DNA damage sensors, and signal transducers to form a large 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.



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Selected Validation Data



Western blot analysis of BRCA1 using anti-BRCA1 antibody (A00005). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,

Lane 2: human MCF-7 whole cell lysates,

Lane 3: human T-47D whole cell lysates,

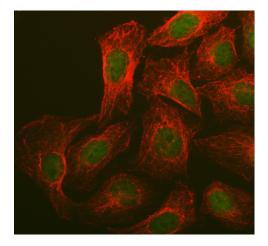
Lane 4: human Caco-2 whole cell lysates,

Lane 5: rat C6 whole cell lysates,

BRCA1 is at 208 kDa.

Lane 6: mouse Neuro-2a whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-BRCA1 antigen affinity purified polyclonal antibody (A00005) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for BRCA1 at approximately 290 kDa. The expected band size for



ICC/IF analysis of BRCA1 using anti-BRCA1 antibody (A00005) and anti-Beta Tubulin antibody (M01857-3).

BRCA1 was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-BRCA1 Antibody (A00005) at a dilution of 1:100. Fluoro 488 Conjugated AffiniPure Donkey Anti-rabbit IgG (H+L) (green)(Catalog#BA1146) and Fluoro594-conjugated Goat Anti-mouse IgG Secondary Antibody (red)(Catalog#BA1141) were used as secondary antibody.