

Rabbit anti-Human BRCA1 Polyclonal Antibody | anti-BRCA1 antibody

BRCA1 Antibody

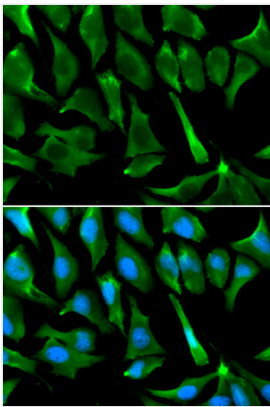
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA29702	Rabbit	Human	Western Blot, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

BRCA1; Polyclonal Antibody; BRCA1 Antibody; BRCAI; BRCC1; BROVCA1; IRIS; anti-BRCA1 antibody

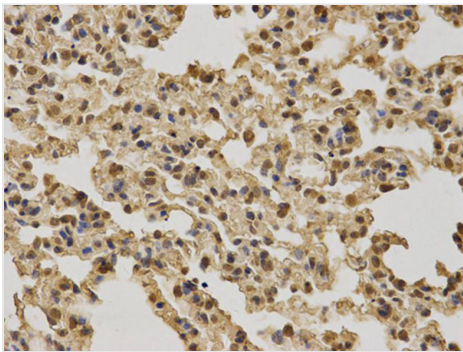
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total BRCA1 protein.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	1863
Applicable Applications for anti-BRCA1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	Western blotting: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:200 Immunofluorescence: 1:50 - 1:200
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human BRCA1.
Target Name	BRCA1
Preparation and Storage	Store at -20 degree C



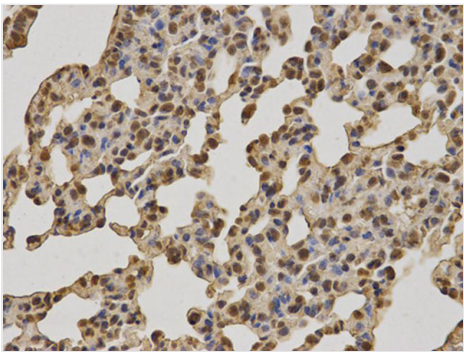
IF (Immunofluorescence)

Immunofluorescence analysis of A549 cell using BRCA1 antibody. Blue: DAPI for nuclear staining.



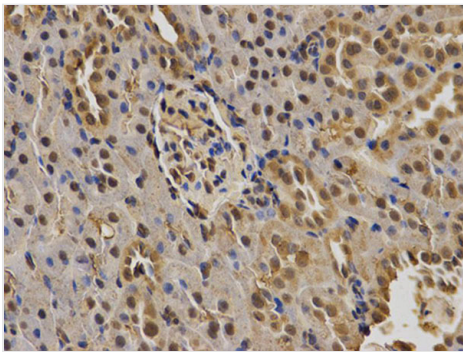
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded rat lung using BRCA1 antibody at dilution of 1:100 (400x lens).



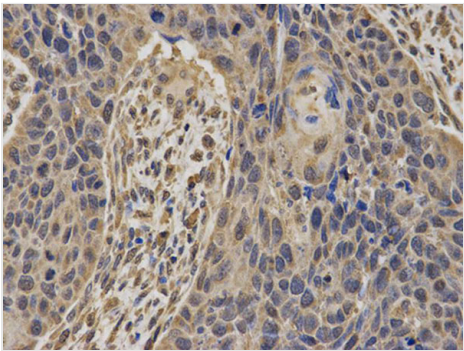
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded rat kidney using BRCA1 antibody at dilution of 1:100 (400x lens).



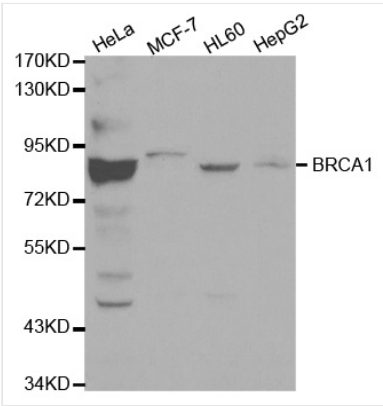
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded mouse lung using BRCA1 antibody at dilution of 1:100 (400x lens).



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human esophageal cancer using BRCA1 antibody at dilution of 1:100 (400x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using BRCA1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-BRCA1 antibody	The breast cancer susceptibility proteins BRCA1 and BRCA2 are frequently mutated in cases of hereditary breast and ovarian cancers and have roles in multiple processes related to DNA damage, repair, cell cycle progression, transcription, ubiquitination and apoptosis (1-4). BRCA2 has been shown to be required for localization of Rad51 to sites of double stranded breaks (DSBs) in DNA, and cells lacking BRCA1 and BRCA2 cannot repair DSBs through the Rad51-dependent process of homologous recombination (HR) (5). Numerous DNA-damage induced phosphorylation sites on BRCA1 have been identified, including serines 988, 1189, 1387, 1423, 1457, 1524 and 1542, and kinases activated in a cell cycle-dependent manner, including Aurora A and CDK2, can also phosphorylate BRCA1 at Ser308 and Ser1497, respectively (6-10). Cell cycle-dependent phosphorylation of BRCA2 at Ser3291 by CDKs has been proposed as a mechanism to switch off HR as cells progress beyond S-phase by blocking the carboxy-terminal Rad51 binding site (11).
Product Categories/Family for anti-BRCA1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	6552299
NCBI GeneID	672
NCBI Accession #	NP_009225.1
NCBI GenBank Nucleotide #	NM_007294.3
UniProt Accession #	P38398; O15129; Q1RMC1; Q3LRJ0; Q3LRJ6; Q6IN79; Q7KYU9; E9PFZ0
Molecular Weight	202,342 Da
NCBI Official Full Name	breast cancer type 1 susceptibility protein isoform 1
NCBI Official Synonym Full Names	breast cancer 1, early onset
NCBI Official Symbol	BRCA1
NCBI Official Synonym Symbols	IRIS; PSCP; BRCAI; BRCC1; FANCS; PNCA4; RNF53; BROVCA1; PPP1R53
NCBI Protein Information	breast cancer type 1 susceptibility protein
UniProt Protein Name	Breast cancer type 1 susceptibility protein
UniProt Gene Name	BRCA1
UniProt Synonym Gene Names	RNF53
UniProt Entry Name	BRCA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/brca1-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/29702>