

Product Name: BRCA1 Mouse Monoclonal Antibody
Catalog #: AMM81228



Summary

Production Name	BRCA1 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	IHC,ELISA
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Immunogen

Gene Name	BRCA1
Alternative Names	IRIS; PSCP; BRCAI; BRCC1; PNCA4; RNF53; BROVCA1; PPP1R53
Gene ID	672.0
SwissProt ID	P38398.Purified recombinant fragment of human BRCA1 (AA: 229-335) expressed in E. Coli.

Application

Dilution Ratio	IHC:1:200-1:1000,ELISA:1:10000
Molecular Weight	207.7kDa

Background

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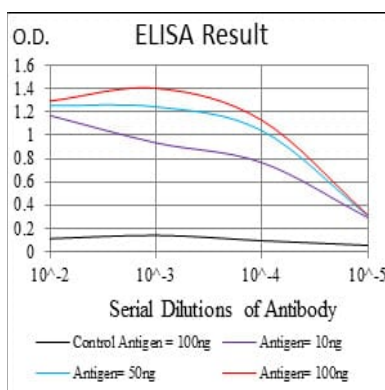


This gene encodes a nuclear phosphoprotein that plays a role in maintaining genomic stability, and it also acts as a tumor suppressor. The encoded protein combines with other tumor suppressors, DNA damage sensors, and signal transducers to form a large multi-subunit protein complex known as the BRCA1-associated genome surveillance complex (BASC). 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 nature of only some of these variants has been described. A related pseudogene, which is also located on chromosome 17, has been identified.

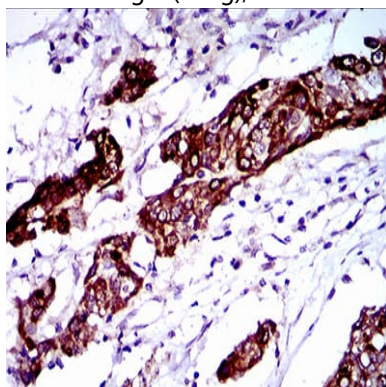
Research Area

PI3K-Akt signaling pathway

Image Data

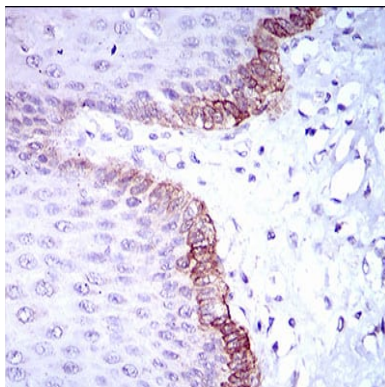


Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



Immunohistochemical analysis of paraffin-embedded human esophagus cancer tissues using BRCA1 mouse mAb with DAB staining.

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Note

For research use only.