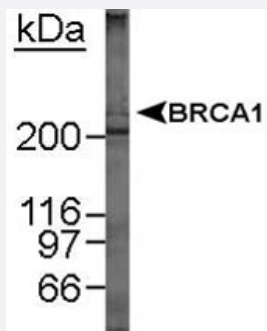


BRCA1 monoclonal antibody, clone MU

Catalog # MAB2364

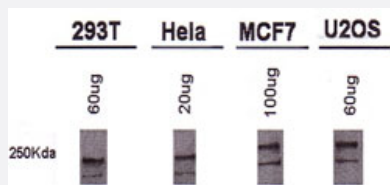
Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of BRCA1 in MCF-7 whole cell lysate using BRCA1 monoclonal antibody, clone MU (Cat # MAB2364). 12 minute ECL exposure.



Western Blot (Cell lysate)

Western blot analysis of BRCA1 using BRCA1 monoclonal antibody, clone MU (Cat # MAB2364).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant BRCA1.
Immunogen	Recombinant protein corresponding to amino acids 1314-1864 of human BRCA1.
Host	Mouse
Reactivity	Human
Specificity	This antibody recognizes the epitope aa 1600-1749.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Recombinant Protein.

Recommend Usage	Western Blot (2-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In buffer containing 0.05% sodium azide
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of BRCA1 in MCF-7 whole cell lysate using BRCA1 monoclonal antibody, clone MU (Cat # MAB2364). 12 minute ECL exposure.

- Western Blot (Cell lysate)

Western blot analysis of BRCA1 using BRCA1 monoclonal antibody, clone MU (Cat # MAB2364).

- Immunofluorescence

- Immunoprecipitation

Gene Info — BRCA1

Entrez GeneID	672
Protein Accession#	P38398
Gene Name	BRCA1
Gene Alias	BRCAI, BRCC1, IRIS, PSCP, RNF53
Gene Description	breast cancer 1, early onset
Omim ID	113705
Gene Ontology	Hyperlink

Gene Summary

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. [provided by RefSeq]

Other Designations

BRCA1/BRCA2-containing complex, subunit 1|breast and ovarian cancer susceptibility protein 1

Publication Reference

- [ATM activation by ionizing radiation requires BRCA1-associated BAAT1.](#)

Aglipay JA, Martin SA, Tawara H, Lee SW, Ouchi T.

The Journal of Biological Chemistry 2006 Apr; 281(14):9710.

Application: IF, IP, WB-Tr, Human, HeLa cells, Human normal mammary epithelial cells

- [A member of the Pryn family, IFI16, is a novel BRCA1-associated protein involved in the p53-mediated apoptosis pathway.](#)

Aglipay JA, Lee SW, Okada S, Fujiuchi N, Ohtsuka T, Kwak JC, Wang Y, Johnstone RW, Deng C, Qin J, Ouchi T.

Oncogene 2003 Dec; 22(55):8931.

Application: IF, IP, WB, Human, Mouse, HCC1937, HeLa, MCF10A cells, MEFs

- [Cell cycle differences in DNA damage-induced BRCA1 phosphorylation affect its subcellular localization.](#)

Okada S, Ouchi T.

The Journal of Biological Chemistry 2003 Jan; 278(3):2015.

Application: IF, WB, Human, HCC1937, MCF-7 cells

Pathway

- [Ubiquitin mediated proteolysis](#)

Disease

- [Abdominal Neoplasms](#)
- [Abortion](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Anticipation](#)
- [Anxiety Disorders](#)
- [Ataxia telangiectasia](#)
- [Awareness](#)
- [Bloom Syndrome](#)
- [Body Image](#)
- [Body Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Carcinoma in Situ](#)
- [Cell Transformation](#)
- [Choice Behavior](#)
- [Chromosome Aberrations](#)
- [Chromosome Breakage](#)
- [Chromosome Deletion](#)
- [Cocarcinogenesis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)

- [Concept Formation](#)
- [Counseling](#)
- [Cystadenocarcinoma](#)
- [Decision Making](#)
- [Discrimination \(Psychology\)](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Fallopian Tube Neoplasms](#)
- [Fanconi Anemia](#)
- [Fatigue](#)
- [Functional Laterality](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hamartoma Syndrome](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Hyperplasia](#)
- [Hyperthyroidism](#)
- [Infertility](#)
- [Kidney Failure](#)
- [Knowledge of Results \(Psychology\)](#)
- [Leukemia](#)

- [Li-Fraumeni Syndrome](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningomyelocele](#)
- [Menopause](#)
- [Microsatellite Instability](#)
- [Multiple Sclerosis](#)
- [Narcolepsy](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neoplastic Syndromes](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Ovarian Diseases](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papillomavirus Infections](#)
- [Perception](#)

- [Peritoneal Neoplasms](#)
- [Personal Autonomy](#)
- [Personality Inventory](#)
- [Peutz-Jeghers Syndrome](#)
- [Precancerous Conditions](#)
- [Pregnancy Complications](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychological Tests](#)
- [Psychology](#)
- [Psychometrics](#)
- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Recurrence](#)
- [Salivary Gland Neoplasms](#)
- [Skin Neoplasms](#)
- [Sleep](#)
- [Sleep Disorders](#)
- [Spinal Dysraphism](#)
- [Spinocerebellar ataxia](#)
- [Stomach Neoplasms](#)
- [Stress](#)
- [Tay-Sachs disease](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)

- [Uterine Cervical Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)