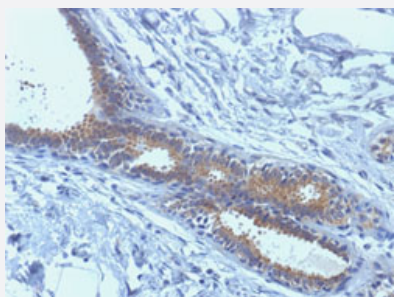


BRCA1 monoclonal antibody, clone BRCA1/1398

Catalog # MAB14999 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human breast cancer with BRCA1 monoclonal antibody, clone BRCA1/1398 (Cat # MAB14999).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human BRCA1.
Immunogen	Recombinant protein corresponding to amino acids 445-620 of human BRCA1.
Host	Mouse
Theoretical MW (kDa)	220
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1
Recommend Usage	Flow Cytometry (0.5-1 ug/10 ⁶ cells) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (5-10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.

Storage Instruction

Store at -20 to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human breast cancer with BRCA1 monoclonal antibody, clone BRCA1/1398 (Cat # MAB14999).

- Immunofluorescence
- Flow Cytometry

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

- [A strong candidate for the breast and ovarian cancer susceptibility gene BRCA1.](#)

Yoshio Miki, Jeff Swensen, Donna Shattuck-Eidens, P. Andrew Futreal, Keith Harshman, Sean Tavtigian, Qingyun Liu, Charles Cochran, L. Michelle Bennett, Wei Ding, Russell Bell, Judith Rosenthal, Charles Hussey, Thanh Tran, Melody McClure, Cheryl Frye, Tom Hattier, Robert Phelps, Astrid Haugen-Strano, Harold Katcher, Kazuko Yakumo, Zahra Gholami, Daniel Shaffer, Steven Stone, Steven Bayer, Christian Wray, Robert Bogden, Priya Dayananth, John Ward, Patricia Tonin, Steven Narod, Pam K. Bristow, Fran

Science 1994 Oct; 266(5182):66.

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](#)