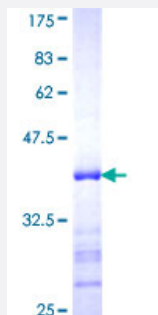


BRCA2 (Human) Recombinant Protein (Q01)

Catalog # H00000675-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human BRCA2 partial ORF (NP_000050, 3319 a.a. - 3418 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	SPQMTPFKKFNEISLLESNSIADEELALINTQALLSGSTGEKQFISVSESTRTAPTSSDYLRLLKRR CTTSLIKEQESSQASTEECEKNKQDTITTKKYI
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (48); Rat (50)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — BRCA2

Entrez GeneID [675](#)

GeneBank Accession# [NM_000059](#)

Protein Accession# [NP_000050](#)

Gene Name BRCA2

Gene Alias BRCC2, FACD, FAD, FAD1, FANCB, FANCD, FANCD1

Gene Description breast cancer 2, early onset

Omim ID [114480](#) [155255](#) [176807](#) [194070](#) [260350](#) [600185](#) [605724](#)

Gene Ontology [Hyperlink](#)

Gene Summary Inherited mutations in BRCA1 and this gene, BRCA2, confer increased lifetime risk of developing breast or ovarian cancer. Both BRCA1 and BRCA2 are involved in maintenance of genome stability, specifically the homologous recombination pathway for double-strand DNA repair. The BRCA2 protein contains several copies of a 70 aa motif called the BRC motif, and these motifs mediate binding to the RAD51 recombinase which functions in DNA repair. BRCA2 is considered a tumor suppressor gene, as tumors with BRCA2 mutations generally exhibit loss of heterozygosity (LOH) of the wild-type allele. [provided by RefSeq]

Other Designations BRCA1/BRCA2-containing complex, subunit 2|OTTHUMP00000018803|OTTHUMP00000042401|breast and ovarian cancer susceptibility gene, early onset|breast cancer 2 tumor suppressor|breast cancer susceptibility protein BRCA2

Publication Reference

- [Prediction of breast cancer risk based on flow-variant analysis of circulating peripheral blood B cells.](#)

Syeda MM, Upadhyay K, Loke J, Pearlman A, Klugman S, Shao Y, Ostrer H.

Genetics in Medicine : Official Journal of the American College of Medical Genetics 2017 Mar; [Epub].

Application: Flow, Human, EBV-immortalized lymphoblastoid cell lines and B cells

Pathway

- [Homologous recombination](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)

Disease

- [Abdominal Neoplasms](#)
- [Abortion](#)
- [Adenocarcinoma](#)
- [Anticipation](#)
- [Anxiety Disorders](#)
- [Ataxia telangiectasia](#)
- [Awareness](#)
- [Azoospermia](#)
- [Birth Weight](#)
- [Bloom Syndrome](#)
- [Body Image](#)
- [Body Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)

- [Carcinoma](#)
- [Carcinoma in Situ](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Choice Behavior](#)
- [Chromosome Aberrations](#)
- [Chromosome Breakage](#)
- [Chromosome Deletion](#)
- [Cocarcinogenesis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Counseling](#)
- [Cystadenocarcinoma](#)
- [Decision Making](#)
- [Diabetes Mellitus](#)
- [Discrimination \(Psychology\)](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [DNA Damage](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Eye Neoplasms](#)
- [Fallopian Tube Neoplasms](#)
- [Fanconi Anemia](#)

- [Fatigue](#)
- [Fetal Death](#)
- [Functional Laterality](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Hamartoma Syndrome](#)
- [Head and Neck Neoplasms](#)
- [Hematologic Diseases](#)
- [Hereditary hemochromatosis](#)
- [Hodgkin Disease](#)
- [Hyperplasia](#)
- [Hyperthyroidism](#)
- [Infertility](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Knowledge of Results \(Psychology\)](#)
- [Leukemia](#)
- [Li-Fraumeni Syndrome](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningeal Neoplasms](#)

- [Meningioma](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [Narcolepsy](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neoplastic Syndromes](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Oligospermia](#)
- [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](#)
- [Recurrence](#)
- [Skin Neoplasms](#)
- [Sleep](#)
- [Sleep Disorders](#)
- [Spinocerebellar ataxia](#)
- [Stomach Neoplasms](#)
- [Stress](#)
- [Tay-Sachs disease](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Uveal Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)
- [Wilms Tumor](#)