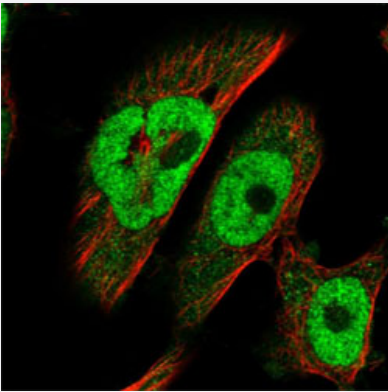


BRCA2 polyclonal antibody

Catalog # PAB31069 Size 100 uL

Applications



Immunofluorescence

Immunofluorescent staining of U-251MG cell line with antibody shows positivity in nucleoplasm and cytosol (green).

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human BRCA2.
Immunogen	Recombinant protein corresponding to human BRCA2.
Sequence	VHPISLSSSKCHDSVVSFMFKIENHNDKTVSEKNNKCQLILQNNIEMTTGTFVEEITENYKRNTENED NKYTAASRNSHNLEFDGSDSSKNDTVCIHKDETDLLFTDQHNICKLSGQFMKEGNTQIKEDLS
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).

Storage Instruction

Store at 4°C. For long term storage store at -20°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

- Immunofluorescence

Immunofluorescent staining of U-251MG cell line with antibody shows positivity in nucleoplasm and cytosol (green).

Gene Info — BRCA2

Entrez GeneID[675](#)**Protein Accession#**[P51587](#)**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

- [53BP1 fosters fidelity of homology-directed DNA repair.](#)

Fena Ochs, Kumar Somyajit, Matthias Altmeyer, Maj-Britt Rask, Jiri Lukas, Claudia Lukas.

Nature Structural & Molecular Biology 2016 Aug; 23(8):714.

Application: WB-Ce, Human, U-2 OS 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](#)