

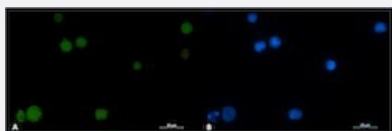
RecomAb™

RAD51 recombinant monoclonal antibody, clone R06-5G2

Catalog # RAB01961 Size 100 uL

Applications

Immunocytochemistry



Immunocytochemical staining of Jurkat with RAD51 recombinant monoclonal antibody, clone R06-5G2 (Cat # RAB01961). (A) RAD51 (green) and (B) DAPI (blue).

Specification

Product Description Rabbit recombinant monoclonal antibody raised against human RAD51.

Antibody Species Rabbit

Immunogen Original antibody is raised against a synthetic peptide corresponding to human RAD51.

Theoretical MW (kDa) Calculated MW: 37 kD

Reactivity Human, Mouse, Rat

Form Liquid

Purification Affinity purification

Isotype IgG

Recommend Usage

- Immunocytochemistry
- Immunofluorescence (1:50-1:200)
- Immunoprecipitation (1:20)
- Western Blot (1:500-1:1000)
- The optimal working dilution should be determined by the end user.

Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	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

- Western Blot
- Immunocytochemistry
- Immunofluorescence
- Immunoprecipitation

Immunocytochemical staining of Jurkat with RAD51 recombinant monoclonal antibody, clone R06-5G2 (Cat # RAB01961). (A) RAD51 (green) and (B) DAPI (blue).

Gene Info — RAD51

Entrez GeneID	5888
Protein Accession#	Q06609
Gene Name	RAD51
Gene Alias	BRCC5, HRAD51, HsRad51, HsT16930, RAD51A, RECA
Gene Description	RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae)
Omim ID	114480 179617
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and Saccharomyces cerevisiae Rad51, and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with the ssDNA-binding protein RPA and RAD52, and it is thought to play roles in homologous pairing and strand transfer of DNA. This protein is also found to interact with BRCA1 and BRCA2, which may be important for the cellular response to DNA damage. BRCA2 is shown to regulate both the intracellular localization and DNA-binding ability of this protein. Loss of these controls following BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

BRCA1/BRCA2-containing complex, subunit 5|DNA repair protein RAD51 homolog 1|RAD51 homolog protein|RAD51, S.cerevisiae, homolog of, A|RecA, E. coli, homolog of|RecA-like protein|recombination protein A

Pathway

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

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Chromosome Aberrations](#)
- [Colorectal Neoplasms](#)
- [DNA Damage](#)
- [DNA Repair-Deficiency Disorders](#)
- [Esophageal Neoplasms](#)
- [Fanconi Anemia](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Hematologic Diseases](#)

- [Hodgkin Disease](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Multiple Sclerosis](#)
- [Myelodysplastic Syndromes](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic Neoplasms](#)
- [Precancerous Conditions](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Radiodermatitis](#)
- [Recurrence](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)

- [Werner syndrome](#)