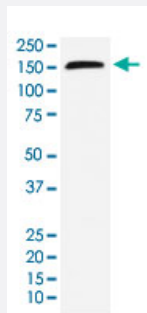


RAD50 monoclonal antibody, clone ACCG-18

Catalog # MAB22022 Size 100 uL

Applications



Western Blot

Western Blot analysis of RAD50.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic protein of human RAD50.
Immunogen	A synthetic peptide corresponding to human RAD50.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	A synthesized peptide derived from human Rad50 Component of the MRN complex.
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1:50-200) Western Blot (1:500-2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% 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

- Western Blot

Western Blot analysis of RAD50.

- Immunofluorescence

Gene Info — RAD50

Entrez GeneID [10111](#)

Protein Accession# [Q92878](#)

Gene Name RAD50

Gene Alias RAD50-2, hRad50

Gene Description RAD50 homolog (S. cerevisiae)

Omim ID [604040](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is highly similar to *Saccharomyces cerevisiae* Rad50, a protein involved in DNA double-strand break repair. This protein forms a complex with MRE11 and NBS1. The protein complex binds to DNA and displays numerous enzymatic activities that are required for nonhomologous joining of DNA ends. This protein, cooperating with its partners, is important for DNA double-strand break repair, cell cycle checkpoint activation, telomere maintenance, and meiotic recombination. Knockout studies of the mouse homolog suggest this gene is essential for cell growth and viability. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. [provided by RefSeq]

Other Designations OTTHUMP00000065928|RAD50 homolog

Pathway

- [Homologous recombination](#)

- [Non-homologous end-joining](#)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Asthma](#)
- [Ataxia telangiectasia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Carcinoma](#)
- [DNA Damage](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malaria](#)
- [Neoplasms](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)

- [Pancreatic Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Respiratory Syncytial Virus Infections](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)