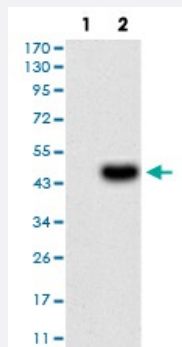


RAD50 monoclonal antibody, clone 5A8E5

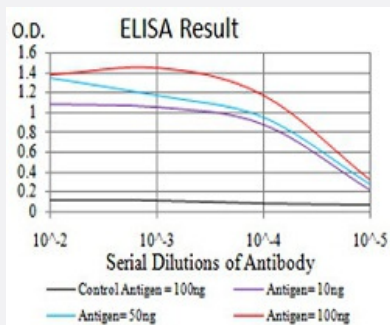
Catalog # MAB17198 Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of (1) HEK293 cells, (2) RAD50-hlgGfC transfected HEK293 cell lysate.



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of RAD50 monoclonal antibody, clone 5A8E5.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human RAD50.
Immunogen	Recombinant protein corresponding to amino acid 228-359 of human RAD50 from <i>E. coli</i> .
Host	Mouse
Theoretical MW (kDa)	154kDa
Reactivity	Human
Form	Liquid
Isotype	IgG1

Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry Immunocytochemistry Flow Cytometry The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% 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 (Transfected lysate)

Western Blot analysis of (1) HEK293 cells, (2) RAD50-hlgGfc transfected HEK293 cell lysate.

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis of RAD50 monoclonal antibody, clone 5A8E5.

Gene Info — RAD50

Entrez GeneID	10111
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](#)