

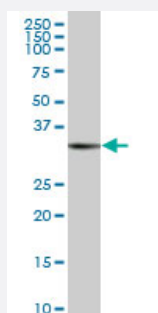
MaxPab®

RAD51 MaxPab mouse polyclonal antibody (B01)

Catalog # H00005888-B01

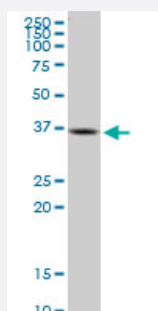
Size 50 uL

Applications



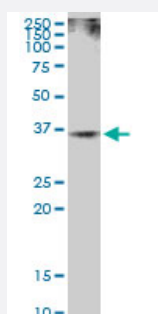
Western Blot (Tissue lysate)

RAD51 MaxPab polyclonal antibody. Western Blot analysis of RAD51 expression in human colon.



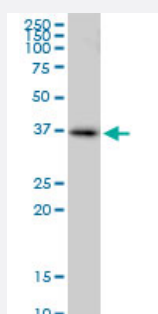
Western Blot (Cell lysate)

RAD51 MaxPab polyclonal antibody. Western Blot analysis of RAD51 expression in NIH/3T3.



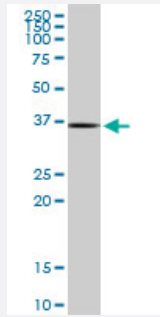
Western Blot (Cell lysate)

RAD51 MaxPab polyclonal antibody. Western Blot analysis of RAD51 expression in PC-12.



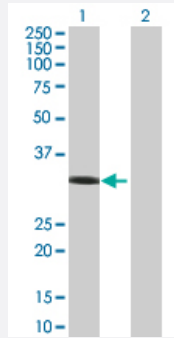
Western Blot (Cell lysate)

RAD51 MaxPab polyclonal antibody. Western Blot analysis of RAD51 expression in Jurkat.



Western Blot (Cell lysate)

RAD51 MaxPab polyclonal antibody. Western Blot analysis of RAD51 expression in Raw 264.7.

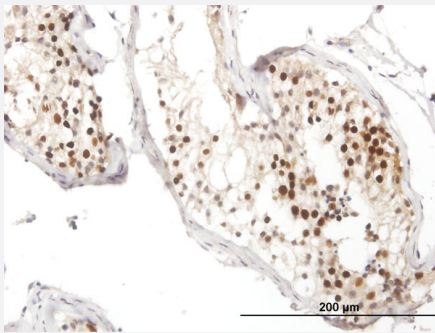


Western Blot (Transfected lysate)

Western Blot analysis of RAD51 expression in transfected 293T cell line ([H00005888-T01](#)) by RAD51 MaxPab polyclonal antibody.

Lane 1: RAD51 transfected lysate(37.29 KDa).

Lane 2: Non-transfected lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of purified MaxPab antibody to RAD51 on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human RAD51 protein.
Immunogen	RAD51 (NP_002866, 1 a.a. ~ 339 a.a) full-length human protein.
Sequence	MAMQMQLEANADTSVEEESFGPQPISRLEQCGINANDVKKLEEAGFHTVEAVAYAPKKELINIKGI SEAKADKILAEAAKLVPMTTATEFHQRRSEIIQITTSKELDKLLQGGIETGSITEMFGEFRTGKT QICHTLAVTCQLPIDRGGGEGKAMYIDTEGTFRPERLLAVAERYGLSGSDVLDNVAYARAFNTDHQ TQLLYQASAMMVESRYALLVDSATALYRTDYSGRGELSARQMHLARFLRMLRLADEFGVAVVIT NQVVAQVDGAAMFAADPKKPIGGNIIAHASTTRL YLRKGRGETRICKIYDSPCLPEAEAMFAINADG VGDAKD
Host	Mouse
Reactivity	Human, Mouse, Rat
Quality Control Testing	Antibody reactive against mammalian transfected lysate.

Storage Buffer

No additive

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Note

For IHC and IF applications, antibody purification with Protein A will be needed prior to use.

Applications

- Western Blot (Tissue lysate)

RAD51 MaxPab polyclonal antibody. Western Blot analysis of RAD51 expression in human colon.

[Protocol Download](#)

- Western Blot (Cell lysate)

RAD51 MaxPab polyclonal antibody. Western Blot analysis of RAD51 expression in NIH/3T3.

[Protocol Download](#)

- Western Blot (Cell lysate)

RAD51 MaxPab polyclonal antibody. Western Blot analysis of RAD51 expression in PC-12.

[Protocol Download](#)

- Western Blot (Cell lysate)

RAD51 MaxPab polyclonal antibody. Western Blot analysis of RAD51 expression in Jurkat.

[Protocol Download](#)

- Western Blot (Cell lysate)

RAD51 MaxPab polyclonal antibody. Western Blot analysis of RAD51 expression in Raw 264.7.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of RAD51 expression in transfected 293T cell line ([H00005888-T01](#)) by RAD51 MaxPab polyclonal antibody.

Lane 1: RAD51 transfected lysate(37.29 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of purified MaxPab antibody to RAD51 on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]

[Protocol Download](#)

Gene Info — RAD51

Entrez GeneID [5888](#)

GeneBank Accession# [NM_002875](#)

Protein Accession# [NP_002866](#)

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

Publication Reference

- [Increased error-free DNA repair gene expression through reprogramming in human iPS cells.](#)

Yoshimura Y.

Regenerative Therapy 2019 Jun; 11:101.

Application: WB-Ce, Human, Human dermal fibroblasts

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](#)