

Rabbit RAD51 Polyclonal Antibody | anti-RAD51 antibody

Anti-RAD51 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254449	Rabbit	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)	Immunofluorescence, Immunocytochemistry, Immunohistochemistry

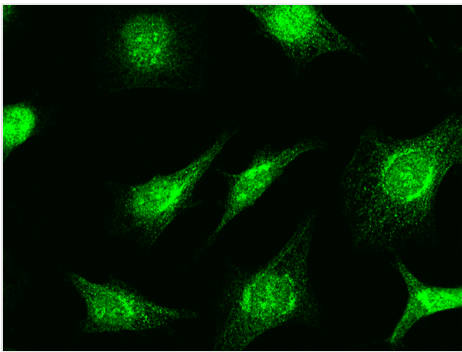
PRODUCT SYNONYMS

RAD51; Polyclonal Antibody; Anti-RAD51 Antibody; Rabbit Polyclonal; RAD51 Antibody; Rabbit PAb; Antigen Affinity Purified; RAD51 recombinase; Anti-BRCC5 Antibody; Anti-HRAD51 Antibody; Anti-HsRad51 Antibody; Anti-HsT16930 Antibody; Anti-MRMV2 Antibody; Anti-RAD51A Antibody; Anti-RECA Antibody; anti-RAD51 antibody

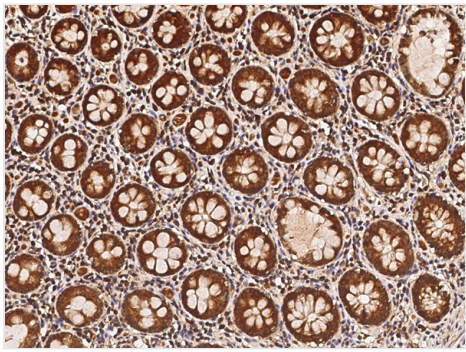
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human RAD51
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-RAD51 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Human RAD51
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human RAD51, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

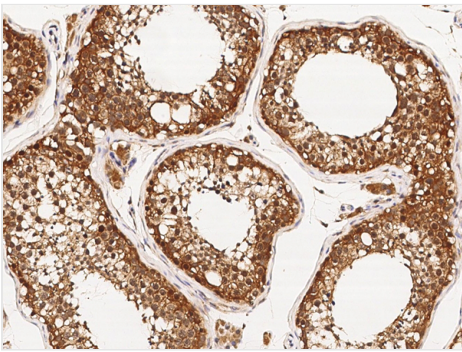
IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of RAD51 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human RAD51 polyclonal antibody (dilution ratio: 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to cytoplasm and nucleus.



IHC (Immunohistochemistry)
Immunochemical staining of human RAD51 in human small intestine with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)
Immunochemical staining of human RAD51 in human testis with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-RAD51 antibody	RAD51 recombinase assembles on single-stranded (ss)DNA substrates exposed by DNA end-resection to initiate homologous recombination (HR), a process fundamental to genome integrity. The human RAD51 recombinase possesses DNA pairing and strand exchange activities that are essential for the error-free, homology-directed repair of DNA double-strand breaks. The recombination activities of RAD51 are activated upon its assembly into presynaptic filaments on single-stranded DNA at resected DSB ends. RAD51 recombinase plays a critical role for cancer cell proliferation and survival. Targeting RAD51 is therefore an attractive strategy for treating difficult-to-treat cancers, e.g. triple negative breast cancers which are often resistant to existing therapeutics. RAD51 recombinase polymerizes at the site of double-strand breaks (DSBs) where it performs DSB repair. The loss of RAD51 causes extensive chromosomal breaks, leading to apoptosis.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	256017143
NCBI GeneID	5888
NCBI Accession #	NP_001157741.1
NCBI GenBank Nucleotide #	NM_001164269.1
UniProt Accession #	Q06609; Q6FHX9; Q6ZNA8; Q9BV60; B0FXP0; B2R8T6
Molecular Weight	36,966 Da
NCBI Official Full Name	DNA repair protein RAD51 homolog 1 isoform 2

NCBI Official Synonym Full Names	RAD51 homolog (S. cerevisiae)
NCBI Official Symbol	RAD51
NCBI Official Synonym Symbols	RECA; BRCC5; MRMV2; HRAD51; RAD51A; HsRad51; HsT16930
NCBI Protein Information	DNA repair protein RAD51 homolog 1; RAD51 homolog A; RecA-like protein; recombination protein A; RecA, E. coli, homolog of; BRCA1/BRCA2-containing complex, subunit 5
UniProt Protein Name	DNA repair protein RAD51 homolog 1
UniProt Gene Name	RAD51
UniProt Synonym Gene Names	RAD51A; RECA; HsRAD51; hRAD51
UniProt Entry Name	RAD51_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/rad51-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/254449>