

Rabbit RAD18 Polyclonal Antibody | anti-RAD18 antibody

RAD18 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327015	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

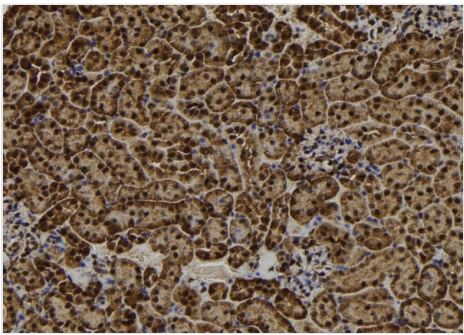
PRODUCT SYNONYMS

RAD18; Polyclonal Antibody; RAD18 Antibody; 2810024C04Rik; DNA repair protein rad18; E3 ubiquitin-protein ligase RAD18; EC 6.3.2.-; hHR 18; hHR18; hRAD 18; hRAD18; MGC156682; Postreplication repair E3 ubiquitin-protein ligase RAD18; Postreplication repair protein hRAD18p; Postreplication repair protein RAD18; RAD 18; RAD18 homolog (S. cerevisiae); RAD18 homolog; RAD18 S. cerevisiae homolog; RAD18 S. cerevisiae homolog of; RAD18 transcript variant; RAD18_HUMAN; Rad18sc; Radiation sensitivity protein 18; RING finger protein 73; RNF 73; RNF73; Structural maintenance of chromosomes protein 6; YCR066W; YCR66W; anti-RAD18 antibody

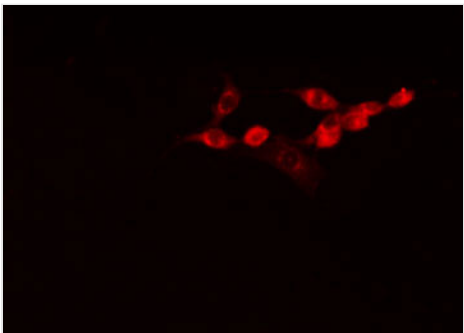
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RAD18 antibody detects endogenous levels of total RAD18
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	495
Applicable Applications for anti-RAD18 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RAD18
Subcellular Location	Nucleus.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

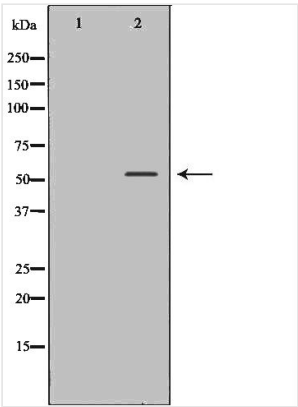
IMAGES



IHC (Immunohistochemisry)
AAA327015 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA327015 staining LOVO cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of A549 whole cell lysates, using RAD18 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RAD18 antibody	Description: The protein encoded by this gene is highly similar to <i>S. cerevisiae</i> DNA damage repair protein Rad18. Yeast Rad18 functions through its interaction with Rad6, which is an ubiquitin-conjugating enzyme required for post-replication repair of damaged DNA. Similar to its yeast counterpart, this protein is able to interact with the human homolog of yeast Rad6 protein through a conserved ring-finger motif. Mutation of this motif results in defective replication of UV-damaged DNA and hypersensitivity to multiple mutagens. Function: E3 ubiquitin-protein ligase involved in postreplication repair of UV-damaged DNA. Postreplication repair functions in gap-filling of a daughter strand on replication of damaged DNA. Associates to the E2 ubiquitin conjugating enzyme UBE2B to form the UBE2B-RAD18 ubiquitin ligase complex involved in mono-ubiquitination of DNA-associated PCNA on 'Lys-164'. Has ssDNA binding activity. Subunit Structure: Homodimer (PubMed:21549715). Interacts with UBE2A and UBE2B, one homodimer binding one molecule of UBE2B. Interacts with SHPRH (PubMed:17130289, PubMed:17108083). Interacts with HLTF (PubMed:18316726, PubMed:18719106). Interacts with SPRTN; leading to enhance chromatin association of RAD18 and RAD18-mediated PCNA ubiquitination and translesion DNA synthesis (PubMed:22681887). Interacts (via C-terminus and phosphorylated form) with SLF1 (via BRCT domains); this interaction is required for efficient repair of UV-induced DNA damage (PubMed:15632077, PubMed:22036607, PubMed:25931565). Interacts with SLF2 (PubMed:25931565). Interacts with SMC5; this interaction is increased in a SLF1 or SLF2-dependent manner (PubMed:25931565). Similarity: Belongs to the RAD18 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	256818821
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NCBI GeneID	56852
NCBI Accession #	NP_064550.3
NCBI GenBank Nucleotide #	NM_020165.3
UniProt Accession #	Q9NS91; Q58F55; Q9NRT6
Molecular Weight	Observed: 56 kDa Predicted: 57 kDa
NCBI Official Full Name	E3 ubiquitin-protein ligase RAD18
NCBI Official Synonym Full Names	RAD18, E3 ubiquitin protein ligase
NCBI Official Symbol	RAD18
NCBI Official Synonym Symbols	RNF73
NCBI Protein Information	E3 ubiquitin-protein ligase RAD18
UniProt Protein Name	E3 ubiquitin-protein ligase RAD18
UniProt Gene Name	RAD18
UniProt Synonym Gene Names	RNF73; hHR18; hRAD18

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rad18-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/327015>