

Rabbit RAD18 Polyclonal Antibody | anti-RAD18 antibody

Phospho-RAD18 (Ser403) Antibody

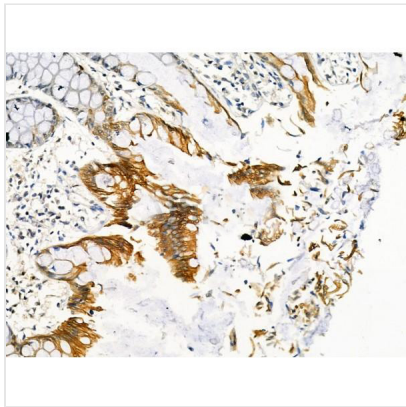
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329491	Rabbit	Human, Mouse Predicted Reactivity: Horse (92%), Sheep (82%), Dog (83%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

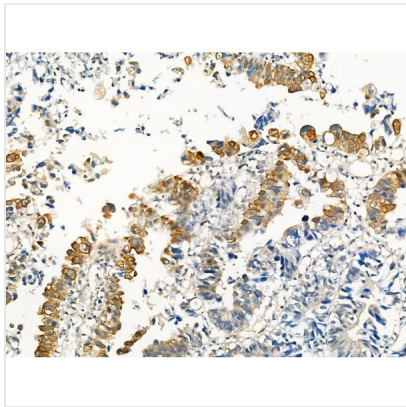
RAD18; Polyclonal Antibody; Phospho-RAD18 (Ser403) Antibody; 2810024C04Rik; DNA repair protein rad18; E3 ubiquitin-protein ligase RAD18; EC 6.3.2.-; hHR 18; hHR18; hRAD 18; hRAD18; MGC156682; Postreplication repair E3 ubiquitin-protein ligase RAD18; Postreplication repair protein hRAD18p; Postreplication 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

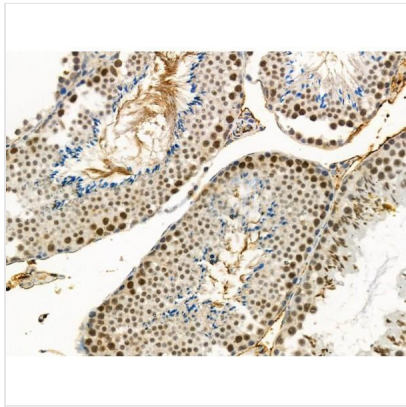
Host	Rabbit
Reactivity	Human, Mouse Predicted Reactivity: Horse (92%), Sheep (82%), Dog (83%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-RAD18 (Ser403) Antibody detects endogenous levels of RAD18 only when phosphorylated at Ser403.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-RAD18 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RAD18 around the phosphorylation site of Ser403.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Homodimer. Interacts with UBE2A and UBE2B, one homodimer binding one molecule of UBE2B. Interacts with SHPRH. Interacts with HLTF. Interacts with SPRTN; leading to enhance chromatin association of RAD18 and RAD18-mediated PCNA ubiquitination and translesion DNA synthesis. Interacts (via C-terminus and phosphorylated form) with SLF1 (via BRCT domains); this interaction is required for efficient repair of UV-induced DNA damage. Interacts with SLF2. Interacts with SMC5; this interaction is increased in a SLF1 or SLF2-dependent manner.
Similarity	Belongs to the RAD18 family.
Subcellular Location	Nucleus. Cytoplasm>Cytoskeleton>Microtubule organizing center>Centrosome. Note: Associates with chromatin (PubMed:25931565). Colocalizes with SLF1 in the nucleus and to centrosomes (PubMed:15632077). Relocalizes with SLF1 to nuclear foci in response to DNA damage (PubMed:22036607). Accumulates with the SLF1-SLF2 and SMC5-SMC6 complexes at replication-coupled DNA interstrand repair and DNA double-strand breaks (DSBs) sites on chromatin in a ubiquitin-dependent manner (PubMed:25931565).
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



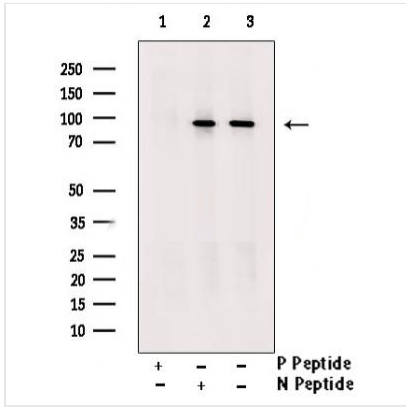
IHC (Immunohistochemistry)
At 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



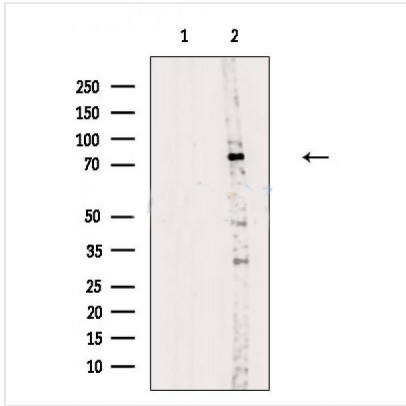
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IHC (Immunohistochemistry)
At 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from 293 , using Phospho-Rad18 (Ser403) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from Raji cells(UV treatment), using Phospho-RAD18 (Ser403) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RAD18 antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	256818821
NCBI GeneID	56852
NCBI Accession #	NP_064550.3
NCBI GenBank Nucleotide #	NM_020165.3
UniProt Accession #	Q9NS91; Q58F55; Q9NRT6
Molecular Weight	56,223 Da
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
UniProt Entry Name	RAD18_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rad18-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329491>