

Rabbit RAD17 Polyclonal Antibody | anti-RAD17 antibody

RAD17 Antibody

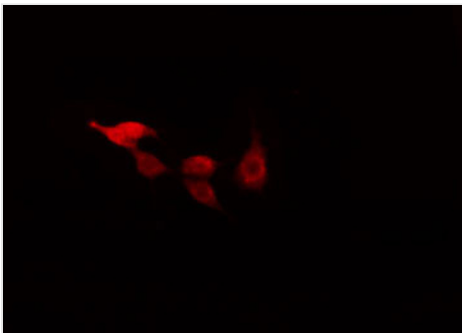
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320763	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

RAD17; Polyclonal Antibody; RAD17 Antibody; CCYC; Cell cycle checkpoint protein; Cell cycle checkpoint protein RAD17; FLJ41520; HRAD 17; hRad17; R24L; Rad 17; Rad 24; RAD1 (S. pombe) homolog; RAD1 homolog; RAD17 homolog (S. pombe); RAD17 homolog; Rad17 like protein; S. pombe; homolog of; RAD17_HUMAN; RAD17Sp; Rad24; mouse; S. cerevisiae; RF C activator 1 homolog; RF C/activator 1 homolog; RF-C/activator 1 homolog; anti-RAD17 antibody

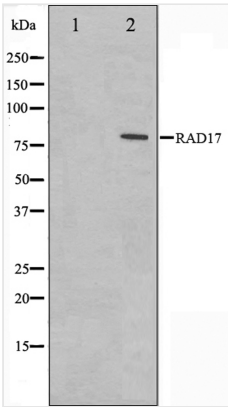
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RAD17 antibody detects endogenous levels of total RAD17
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	670
Applicable Applications for anti-RAD17 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RAD17
Subcellular Location	Nucleus. Phosphorylated form redistributes to discrete nuclear foci upon DNA damage.
Tissue Specificity	Overexpressed in various cancer cell lines and in colon carcinoma (at protein level). Isoform 2 and isoform 3 are the most abundant isoforms in non irradiated cells (at protein level). Ubiquitous at low levels. Highly expressed in testis, where it is expressed within the germinal epithelium of the seminiferous tubuli. Weakly expressed in seminomas (testicular tumors).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)

AAA320763 staining HeLa 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 on HeLa cell lysate using RAD17 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RAD17 antibody

Description: Rad17 a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. Shares strong similarity with DNA replication factor C (RFC), and can form a complex with RFCs. Binds to chromatin prior to DNA damage and is phosphorylated by ATR after the damage. Phosphorylated and activated after DNA damage, inducing cell cycle G2 arrest. Eight alternatively spliced variants have been reported. Function: Essential for sustained cell growth, maintenance of chromosomal stability, and ATR-dependent checkpoint activation upon DNA damage. Has a weak ATPase activity required for binding to chromatin. Participates in the recruitment of the RAD1-RAD9-HUS1 complex and RHNO1 onto chromatin, and in CHEK1 activation. May also serve as a sensor of DNA replication progression, and may be involved in homologous recombination.

Subunit Structure: Part of a DNA-binding complex containing RFC2, RFC3, RFC4 and RFC5. Interacts with RAD1 and RAD9 within the RAD1-RAD9-HUS1 complex. Interacts with RAD9B, POLE, SNU13 and MCM7. DNA damage promotes interaction with ATR or ATM and disrupts interaction with the RAD1-RAD9-HUS1 complex.

Post-translational Modifications: Phosphorylated. Phosphorylation on Ser-646 and Ser-656 is cell cycle-regulated, enhanced by genotoxic stress, and required for activation of checkpoint signaling. Phosphorylation is mediated by ATR upon UV or replication arrest, whereas it may be mediated both by ATR and ATM upon ionizing radiation. Phosphorylation on both sites is required for interaction with RAD1 but dispensable for interaction with RFC3 or RFC4.

Similarity: Belongs to the rad17/RAD24 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	520261542
NCBI GeneID	5884
NCBI Accession #	NP_001265551.1
NCBI GenBank Nucleotide #	NM_001278622.1
UniProt Accession #	O75943; O75714; Q7Z3S4; Q9UNK7; Q9UNR7; Q9UNR8; Q9UPF5; A8K8X2; D3DWA5
Molecular Weight	Observed: 77 kDa Predicted: 78 kDa
NCBI Official Full Name	cell cycle checkpoint protein RAD17 isoform 1
NCBI Official Synonym Full Names	RAD17 checkpoint clamp loader component
NCBI Official Symbol	RAD17
NCBI Official Synonym Symbols	CCYC; R24L; RAD24; HRAD17; RAD17SP
NCBI Protein Information	cell cycle checkpoint protein RAD17

UniProt Protein Name	Cell cycle checkpoint protein RAD17
UniProt Gene Name	RAD17
UniProt Synonym Gene Names	R24L; hRad17

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://stage.aaabiotech.com/polyclonal/rad17-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/320763>