

Product Name: KD-Validated RAD17 Rabbit Polyclonal Antibody**Catalog #: KVA00448**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit pAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500
Molecular Weight	Calculated MW: 77.1kDa

Antigen Information

Gene Name	RAD17
Alternative Names	RAD17; RAD17 Checkpoint Clamp Loader Component; RAD17Sp; Rad24; CCYC; Cell Cycle Checkpoint Protein RAD17; R24L; Cell Cycle Checkpoint Protein (RAD17); RAD17 Homolog (S. Pombe); RF-C Activator 1 Homolog; RF-C/Activator 1 Homolog; RAD1 (S. Pombe) Homolog; Rad17-Like Protein; RAD17 Homolog; RAD1 Homolog; HRAD17; HRad17
Gene ID	5884.0
SwissProt ID	O75943
Immunogen	A synthesized peptide derived from human RAD17

Background

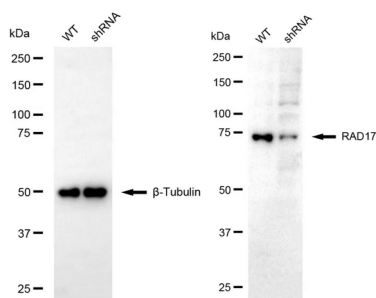
The protein encoded by this gene is highly similar to the gene product of *Schizosaccharomyces pombe* rad17, a cell cycle

checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. This protein shares strong similarity with DNA replication factor C (RFC), and can form a complex with RFCs. This protein binds to chromatin prior to DNA damage and is phosphorylated by the checkpoint kinase ATR following damage. This protein recruits the RAD1-RAD9-HUS1 checkpoint protein complex onto chromatin after DNA damage, which may be required for its phosphorylation. The phosphorylation of this protein is required for the DNA-damage-induced cell cycle G2 arrest, and is thought to be a critical early event during checkpoint signaling in DNA-damaged cells. Multiple alternatively spliced transcript variants of this gene, which encode four distinct protein isoforms, have been reported. Two pseudogenes, located on chromosomes 7 and 13, have been identified. [provided by RefSeq, Jul 2013]

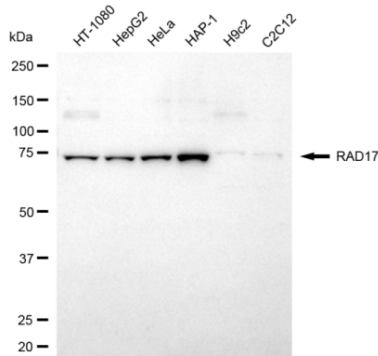
Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blotting analysis using RAD17 antibody (KVA00448). RAD17 expression in wild-type (WT) and RAD17 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with RAD17 antibody (KVA00448, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using RAD17 antibody (KVA00448). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RAD17 antibody (KVA00448, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.