

KD-Validated Anti-RAD17 Rabbit Polyclonal Antibody
Rabbit polyclonal antibody
Catalog # AGI2150**Specification****KD-Validated Anti-RAD17 Rabbit Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	O75943
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 77 kDa, observed, 74 kDa
Gene Name	KDa RAD17
Aliases	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
Immunogen	A synthesized peptide derived from human RAD17

KD-Validated Anti-RAD17 Rabbit Polyclonal Antibody - Additional Information

Gene ID	5884
Other Names	
Cell cycle checkpoint protein RAD17, hRad17, RF-C/activator 1 homolog, RAD17 {ECO:0000303 PubMed:9878245, ECO:0000312 HGNC:HGNC:9807}	

KD-Validated Anti-RAD17 Rabbit Polyclonal Antibody - Protein Information

Name RAD17 {ECO:0000303|PubMed:9878245, ECO:0000312|HGNC:HGNC:9807}

Function

Essential for sustained cell growth, maintenance of chromosomal stability, and ATR-dependent checkpoint activation upon DNA damage (PubMed: [10208430](http://www.uniprot.org/citations/10208430), PubMed: [11418864](http://www.uniprot.org/citations/11418864), PubMed: [11687627](http://www.uniprot.org/citations/11687627), PubMed: [11799063](http://www.uniprot.org/citations/11799063), PubMed: [12672690](http://www.uniprot.org/citations/12672690), PubMed: [14624239](http://www.uniprot.org/citations/14624239), PubMed: [15235112](http://www.uniprot.org/citations/15235112)). Has a weak ATPase activity required for binding to chromatin (PubMed: [10208430](http://www.uniprot.org/citations/10208430), PubMed: [10208430](http://www.uniprot.org/citations/10208430)).

[11418864](http://www.uniprot.org/citations/11418864), PubMed:[11687627](http://www.uniprot.org/citations/11687627), PubMed:[11799063](http://www.uniprot.org/citations/11799063), PubMed:[12672690](http://www.uniprot.org/citations/12672690), PubMed:[14624239](http://www.uniprot.org/citations/14624239), PubMed:[15235112](http://www.uniprot.org/citations/15235112)). Participates in the recruitment of the 9-1-1 (RAD1-RAD9-HUS1) complex and RHNO1 onto chromatin, and in CHEK1 activation (PubMed:[21659603](http://www.uniprot.org/citations/21659603)). Involved in homologous recombination by mediating recruitment of the MRN complex to DNA damage sites (PubMed:[24534091](http://www.uniprot.org/citations/24534091)). May also serve as a sensor of DNA replication progression (PubMed:[12578958](http://www.uniprot.org/citations/12578958), PubMed:[14500819](http://www.uniprot.org/citations/14500819), PubMed:[15538388](http://www.uniprot.org/citations/15538388)).

Cellular Location

Nucleus. Chromosome Note=Phosphorylated form redistributes to discrete nuclear foci upon DNA damage (PubMed:11799063). Localizes to DNA double-strand breaks (DSBs) (PubMed:24534091).

Tissue Location

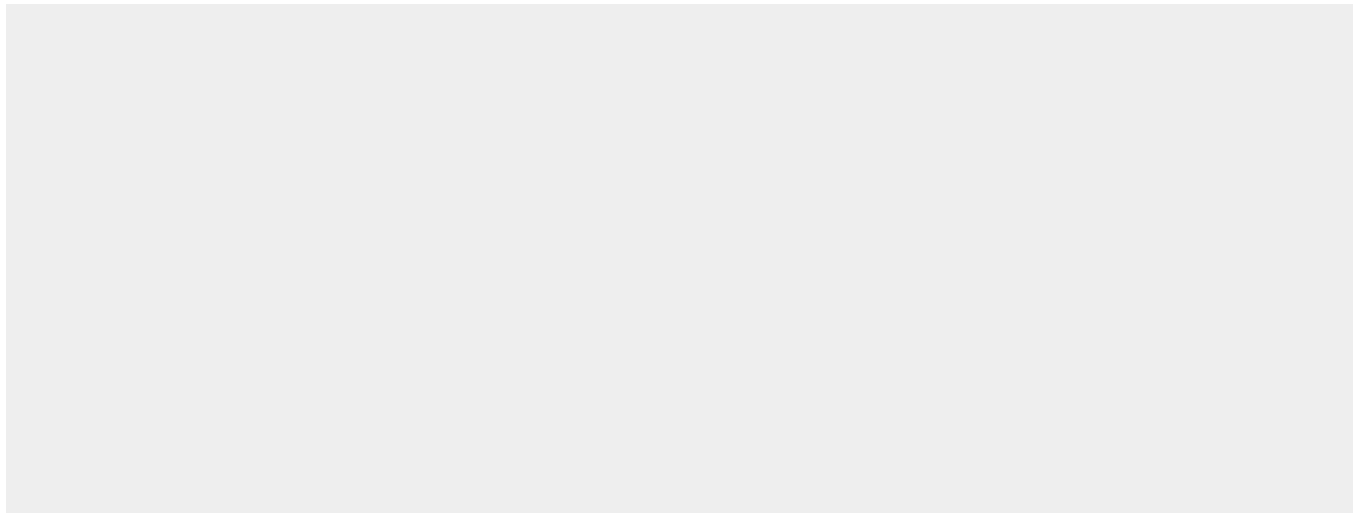
Overexpressed in various cancer cell lines and in colon carcinoma (at protein level). Isoform 2 and isoform 3 are the most abundant isoforms in non irradiated cells (at protein level) Ubiquitous at low levels. Highly expressed in testis, where it is expressed within the germinal epithelium of the seminiferous tubuli Weakly expressed in seminomas (testicular tumors)

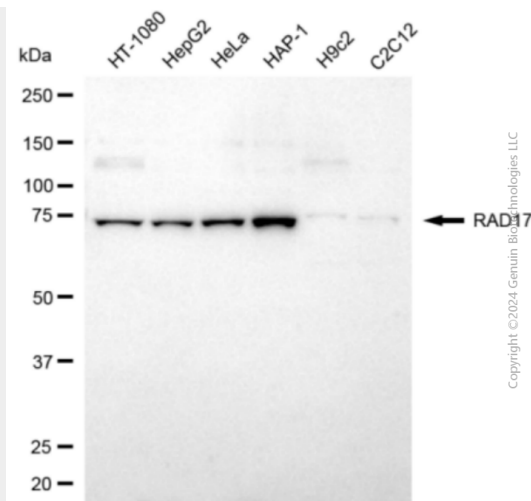
KD-Validated Anti-RAD17 Rabbit Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

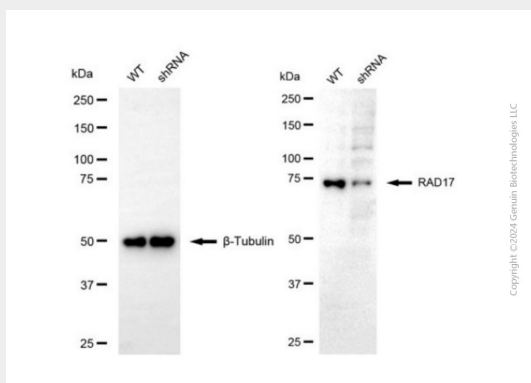
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-RAD17 Rabbit Polyclonal Antibody - Images





Western blotting analysis using anti-RAD17 antibody (Cat#AGI2150). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-RAD17 antibody (Cat#AGI2150, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-RAD17 antibody (Cat#AGI2150). RAD17 expression in wild-type (WT) and RAD17 shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-RAD17 antibody (Cat#AGI2150, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody respectively.