

## Polyclonal Antibody to RAD17 - Aff - Purified

<b>Alternate names:</b>	Cell cycle checkpoint protein RAD17, R24L, RF-C/activator 1 homolog
<b>Catalog No.:</b>	AP22128PU-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	Rad17, also known as 'cell cycle checkpoint protein RAD17,' is a nuclear protein belonging to the Rad17/RAD24 family and necessary for sustained cell growth, maintenance of chromosomal stability, and ATR-dependent checkpoint activation upon DNA damage. Rad17 is known to have a weak ATPase activity and is required for binding to chromatin and also participates in the recruitment of the RAD1-RAD9-HUS1 complex onto chromatin, and in CHEK1 activation. It may also serve as a sensor of DNA replication progression, and may be involved in homologous recombination. Rad17 is a part of a DNA-binding complex containing RFC2, RFC3, RFC4 and RFC5. Four isoforms have been reported by X-ray irradiation. Overexpression of this protein is seen in various cancer cell lines and in colon carcinoma.
<b>Uniprot ID:</b>	<a href="#">O75943</a>
<b>NCBI:</b>	<a href="#">NP_002864.1</a>
<b>GenID:</b>	<a href="#">5884</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	A portion of human Rad17 protein containing a phosphorylated serine residue at position 645 <b>Remarks:</b> The amino acid sequence used as immunogen is 100% homologous in human (isoforms CRA_a, CRA_f and CRA_d), rhesus monkey, chimpanzee and orangutan, 92% homologous in horse, cow and mouse and 85% homologous in dog and rat.
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Antigen Affinity Chromatography <b>Buffer System:</b> PBS containing 0.05% BSA and 0.05% sodium azide
<b>Applications:</b>	Western blot: 3-5 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects RAD17. This product is antibody from the nonphosphorylated fraction of the immune response.
<b>Species Reactivity:</b>	<b>Tested:</b> Chimpanzee, Human, Mouse, Orangutan, Rhesus Monkey <b>Expected from sequence similarity:</b> Cow, Dog, Horse, Rat

**Storage:** Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**General Readings:** 1. Bao, S. et al. Cancer Res. 59:2023-2028 (1999).  
2. Parker, AE. et al. J. Biol. Chem. 273:18340-18346 (1998). Note: Erratum: J. Biol. Chem. 274:24438-24439 (1999).  
3. Bao, S. et al. Nature. 411:969-974 (2001).

**Pictures:** Western blot analysis of Rad17 in HeLa cell lysate in the 1) absence and 2) presence of immunizing peptide, and 3) NIH 3T3 cell lysate using AP22128PU-N at 3 µg/ml.

