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AP22128PU-N OriGene EU

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Polyclonal Antibody to RAD17 - Aff - Purified

Alternate names:	Cell cycle checkpoint protein RAD17, R24L, RF-C/activator 1 homolog
Catalog No.:	AP22128PU-N
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	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.
Uniprot ID:	<u>075943</u>
NCBI:	<u>NP_002864.1</u>
GenelD:	<u>5884</u>
Host:	Rabbit
Immunogen:	A portion of human Rad17 protein containing a phosphorylated serine residue at position 645
	Remarks: 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.
Format:	State: Liquid Ig fraction Purification: Antigen Affinity Chromatography Buffer System: PBS containing 0.05% BSA and 0.05% sodium azide
Applications:	Western blot: 3-5 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects RAD17. This product is antibody from the nonphosphorylated fraction of the immune response.
Species Reactivity:	Tested: Chimpanzee, Human, Mouse, Orangutan, Rhesus Monkey Expected from sequence similarity: Cow, Dog, Horse, Rat

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request. Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



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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:	 Bao, S. et al. Cancer Res. 59:2023-2028 (1999). Parker, AE. et al. J. Biol. Chem. 273:18340-18346 (1998). Note: Erratum: J. Biol. Chem. 274:24438-24439 (1999). 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 $3 \mu g/ml$.

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