

RAD17 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP11700c**Specification**

RAD17 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [O75943](#)**RAD17 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 5884**Other Names**

Cell cycle checkpoint protein RAD17, hRad17, RF-C/activator 1 homolog, RAD17, R24L

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RAD17 Antibody (Center) Blocking peptide - 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, PubMed:11418864, PubMed:11687627, PubMed:11799063, PubMed:12672690, PubMed:14624239, PubMed:15235112). Has a weak ATPase activity required for binding to chromatin (PubMed:10208430, PubMed:11418864, PubMed:11687627, PubMed:11799063, PubMed:12672690, PubMed:14624239, PubMed:15235112). Participates in the recruitment of the 9-1-1 (RAD1-RAD9-HUS1) complex and RHNO1 onto chromatin, and in

CHEK1 activation (PubMed:21659603). May also serve as a sensor of DNA replication progression, and may be involved in homologous recombination (PubMed:14500819, PubMed:12578958, PubMed:15538388).

Cellular Location

Nucleus. Note=Phosphorylated form redistributes to discrete nuclear foci upon DNA damage.

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)

RAD17 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

RAD17 Antibody (Center) Blocking peptide - Images

RAD17 Antibody (Center) Blocking peptide - Background

The OCT1 transcription factor was among the first identified members of the POU transcription factor family (summarized by Sturm et al., 1993 [PubMed 8314572]). Members of this family contain the POU domain, a 160-amino acid region necessary for DNA binding to the octameric sequence ATGCAAAT.

RAD17 Antibody (Center) Blocking peptide - References

Vuzman, D., et al. Biophys. J. 99(4):1202-1211(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Davila, S., et al. Genes Immun. 11(3):232-238(2010) Laurent, B., et al. Blood 115(3):687-695(2010) Becker, M.L., et al. Pharmacogenet. Genomics 20(1):38-44(2010)