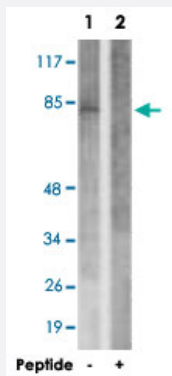


RAD17 polyclonal antibody

Catalog # PAB18134 Size 100 ug

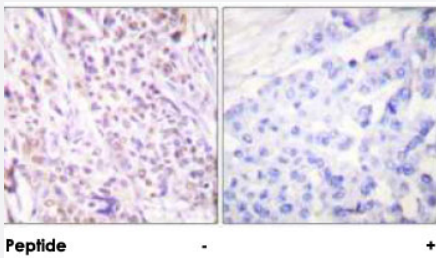
Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from A-549 cells, using RAD17 polyclonal antibody (Cat # PAB18134).

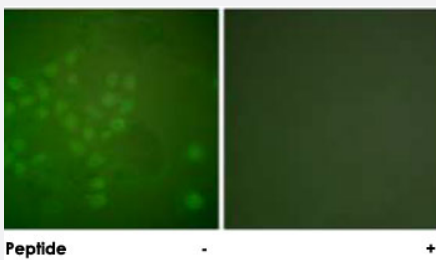
Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using RAD17 polyclonal antibody (Cat # PAB18134).

Peptide "+" means "peptide blocking".



Immunofluorescence

Immunofluorescence analysis of A-549 cells, using RAD17 polyclonal antibody (Cat # PAB18134).

Peptide "+" means "peptide blocking".

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of RAD17.

Immunogen	A synthetic peptide corresponding to human RAD17.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	This antibody is specific to RAD17.
Form	Liquid
Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) Immunofluorescence (1:500-1:1000) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from A-549 cells, using RAD17 polyclonal antibody (Cat # PAB18134).

Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using RAD17 polyclonal antibody (Cat # PAB18134).

Peptide "+" means "peptide blocking".

- Immunofluorescence

Immunofluorescence analysis of A-549 cells, using RAD17 polyclonal antibody (Cat # PAB18134).

Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — RAD17

Entrez GeneID [5884](#)

Protein Accession# [O75943](#)

Gene Name RAD17

Gene Alias CCYC, FLJ41520, HRAD17, R24L, RAD17SP, RAD24

Gene Description RAD17 homolog (S. pombe)

Omim ID [603139](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. Eight alternatively spliced transcript variants of this gene, which encode four distinct proteins, have been reported. Two pseudogenes, located on chromosomes 7 and 13, have been identified. [provided by RefSeq]

Other Designations OTTHUMP00000125189|OTTHUMP00000125190|OTTHUMP00000125192|OTTHUMP00000125193|OTTHUMP00000125194|RAD1 homolog|RAD17 homolog|RF-C activator 1 homolog|Rad17-like protein|cell cycle checkpoint protein (RAD17)

Publication Reference

- [Chromatin association of rad17 is required for an ataxia telangiectasia and rad-related kinase-mediated S-phase checkpoint in response to low-dose ultraviolet radiation.](#)

Garg R, Callens S, Lim DS, Canman CE, Kastan MB, Xu B.

Molecular Cancer Research 2004 Jun; 2(6):362.

Application: WB-Tr, Human, HEK 293T cells

- [Regulation of ATR substrate selection by Rad17-dependent loading of Rad9 complexes onto chromatin.](#)

Zou L, Cortez D, Elledge SJ.

Genes & Development 2002 Jan; 16(2):198.

Application: WB-Tr, Human, HCT-116, HEK 293T, HeLa cells

- [Phosphorylation of serines 635 and 645 of human Rad17 is cell cycle regulated and is required for G\(1\)/S checkpoint activation in response to DNA damage.](#)

Post S, Weng YC, Cimprich K, Chen LB, Xu Y, Lee EY.

PNAS 2001 Nov; 98(23):13102.

Application: WB-Ti, WB-Tr, Human, Mouse, HEK 293 cells, Mouse lungs

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)