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Rad17 Polyclonal Antibody

Catalog No	YP-Ab-00504
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	RAD17
Protein Name	Cell cycle checkpoint protein RAD17
Immunogen	The antiserum was produced against synthesized peptide derived from human RAD17. AA range:621-670
Specificity	Rad17 Polyclonal Antibody detects endogenous levels of Rad17 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
	0000/4
Storage Stability	-20°C/1 year
Storage Stability Synonyms	RAD17; R24L; Cell cycle checkpoint protein RAD17; hRad17; RF-C/activator 1 homolog
	RAD17; R24L; Cell cycle checkpoint protein RAD17; hRad17; RF-C/activator 1
Synonyms	RAD17; R24L; Cell cycle checkpoint protein RAD17; hRad17; RF-C/activator 1 homolog
Synonyms Observed Band	RAD17; R24L; Cell cycle checkpoint protein RAD17; hRad17; RF-C/activator 1 homolog 86kD Nucleus . Phosphorylated form redistributes to discrete nuclear foci upon DNA



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ionizing radiation. Phosphorylation on both sites is required for interaction with RAD1 but dispensable for interaction with RFC3 or

Background

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. Multiple alternatively spliced transcript variants of this gene, which encode four distinct protein isoforms. h four distinct protein isoforms, h

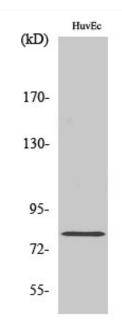
matters needing attention

Avoid repeated freezing and thawing!

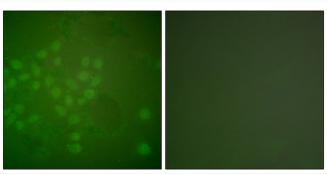
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

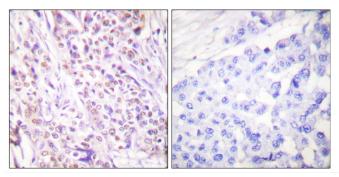
Products Images



Western Blot analysis of various cells using Rad17 Polyclonal Antibody



Immunofluorescence analysis of A549 cells, using RAD17 Antibody. The picture on the right is blocked with the synthesized peptide.



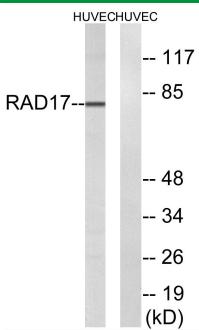
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using RAD17 Antibody. The picture on the right is blocked with the synthesized peptide.



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Western blot analysis of lysates from HUVEC cells, using RAD17 Antibody. The lane on the right is blocked with the synthesized peptide.