

## Rad17 (phospho Ser645) Polyclonal Antibody

Catalog No: #13590



Package Size: #13590-1 50ul #13590-2 100ul

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## Description

Product Name	Rad17 (phospho Ser645) Polyclonal Antibody
Host Species	Rabbit
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB,ELISA
Species Reactivity	Human,Mouse
Specificity	Phospho-Rad17 (S645) Polyclonal Antibody detects endogenous levels of Rad17 protein only when phosphorylated at S645.
Immunogen Description	The antiserum was produced against synthesized peptide derived from human RAD17 around the phosphorylation site of Ser645. AA range:621-670
Other Names	RAD17; R24L; Cell cycle checkpoint protein RAD17; hRad17; RF-C/activator 1 homolog
Accession No.	Swiss Prot:O75943GeneID:5884
Uniprot	O75943
GeneID	5884
SDS-PAGE MW	77
Concentration	1 mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	-20°C/1

## Application Details

Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.

## Background

RAD17 checkpoint clamp loader component(RAD17) Homo sapiens 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

Note: This product is for in vitro research use only