



Rad17 (phospho Ser645) Monoclonal Antibody

Catalog No	BYmab-00170
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	RAD17
Protein Name	Cell cycle checkpoint protein RAD17
Immunogen	The antiserum was produced against synthesized peptide derived from human RAD17 around the phosphorylation site of Ser645. AA range:621-670
Specificity	Phospho-Rad17 (S645) Monoclonal Antibody detects endogenous levels of Rad17 protein only when phosphorylated at S645.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	RAD17; R24L; Cell cycle checkpoint protein RAD17; hRad17; RF-C/activator 1 homolog
Observed Band	77kD
Cell Pathway	Nucleus . Phosphorylated form redistributes to discrete nuclear foci upon DNA damage.
Tissue Specificity	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).
Function	function:Essential for sustained cell growth, maintenance of chromosomal stability, and ATR-dependent checkpoint activation upon DNA damage. Has a weak ATPase activity required for binding to chromatin. Participates in the recruitment of the RAD1-RAD9-HUS1 complex onto chromatin, and in CHEK1 activation. May also serve as a sensor of DNA replication progression, and may
	be involved in homologous recombination.,induction:By X-ray irradiation (isoform 1, isoform 3 and isoform 4).,PTM:Phosphorylated. Phosphorylation on Ser-646

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and Ser-656 is cell cycle-regulated, enhanced by genotoxic stre	ess, and required
for activation of checkpoint signaling. Phosphorylation is media	ted by ATR upon
UV or replication arrest, whereas it may be mediated both by A	TR and ATM upon
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

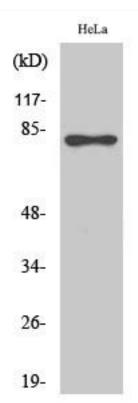
matters needing attention

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 (phospho Ser645) Monoclonal Antibody

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