



Optimize Your Research

Rad17 Polyclonal Antibody

Description

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|-------------------------|--|
| Product type | Primary Antibody |
| Code | BT-AP07600 |
| Host | Rabbit |
| Isotype | IgG |
| Size | 20ul, 50ul, 100ul |
| Immunogen | Synthesized peptide derived from Rad17 . at AA range: 580-660 |
| Mol wt | 77055 |
| Species reactivity | Human, Mouse, Rat |
| Clonality | Polyclonal |
| Recommended application | WB, ELISA |
| Concentration | 1 mg/ml |
| Full name | Rad17 Antibody |
| Synonyms | RAD17; R24L; Cell cycle checkpoint protein RAD17; hRad17; RF-C/activator 1 homolog |

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

The protein encoded by RAD17 (RAD17 checkpoint clamp loader component) 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, have been reported. Two pseudogenes, located on chromosomes 7 and 13, have been identified.

Recommended Dilution

WB: 1: 500 - 1: 2000

ELISA: 1: 10000

Not yet tested in other applications.

Images

No images.

Storage

-20°C for one year