

ATR (phospho Ser428) rabbit pAb

Cat No.: ES6657

For research use only

Overview

Product Name ATR (phospho Ser428) rabbit pAb

Host species Rabbit
Applications IHC;IF;ELISA

Species Cross-Reactivity Human;Rat;Mouse;

Recommended dilutions Immunohistochemistry: 1/100 - 1/300. ELISA:

1/40000. Not yet tested in other applications.

Immunogen The antiserum was produced against synthesized

peptide derived from human ATR around the phosphorylation site of Ser428. AA range:394-443

Specificity Phospho-ATR (S428) Polyclonal Antibody detects

endogenous levels of ATR protein only when

phosphorylated at S428.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Serine/threonine-protein kinase ATR

Gene Name ATR

Cellular localization Nucleus . Chromosome . Depending on the cell type,

it can also be found in PML nuclear bodies. Recruited to chromatin during S-phase.

Redistributes to discrete nuclear foci upon DNA damage, hypoxia or replication fork stalling.

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal Concentration 1 mg/ml

Observed band

Human Gene ID 545

Human Swiss-Prot Number Q13535

Alternative Names ATR; FRP1; Serine/threonine-protein kinase ATR;

Ataxia telangiectasia and Rad3-related protein;

FRAP-related protein 1



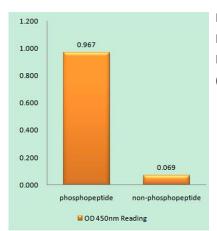
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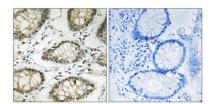


Background

The protein encoded by this gene belongs the PI3/PI4-kinase family, and is most closely related to ATM, a protein kinase encoded by the gene mutated in ataxia telangiectasia. This protein and ATM share similarity with Schizosaccharomyces pombe rad3, a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. This kinase has been shown to phosphorylate checkpoint kinase CHK1, checkpoint proteins RAD17, and RAD9, as well as tumor suppressor protein BRCA1. Mutations of this gene are associated with Seckel syndrome. An alternatively spliced transcript variant of this gene has been reported, however, its full length nature is not known. Transcript variants utilizing alternative polyA sites exist. [provided by RefSeq, Jul 2008],



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using ATR (Phospho-Ser428) Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using ATR (Phospho-Ser428) Antibody. The picture on the right is blocked with the phospho peptide.

