## Phospho-ATR (Ser428) Antibody



## PACO24216

Reactivity:

Isotype:

## **Product Information**

Size: Protein Background:

100ul Serine/threonine protein kinase which activates checkpoint signaling upon genotoxic

stresses such as ionizing radiation (IR), ultraviolet light (UV), or DNA replication stalling, thereby acting as a DNA damage sensor. Recognizes the substrate consensus sequence

Human [ST]-Q. Phosphorylates BRCA1, CHEK1, MCM2, RAD17, RPA2, SMC1 and p53/TP53, which collectively inhibit DNA replication and mitosis and promote DNA repair,

Source: recombination and apoptosis. Phosphorylates 'Ser-139' of histone variant H2AX/H2AFX

Rabbit at sites of DNA damage, thereby regulating DNA damage response mechanism.

Required for FANCD2 ubiquitination. Critical for maintenance of fragile site stability and

efficient regulation of centrosome duplication.

lgG Gene ID:

Applications:

ELISA, IHC Uniprot

Q13535 **Recommended dilutions:** 

ELISA:1:2000-1:10000, IHC:1:50-1:100

ataxia telangiectasia and Rad3-related protein; EC 2.7.11.1; FRAP-related protein; FRP1; kinase ATR; protein kinase ATR

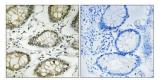
Immunogen:

Peptide sequence around phosphorylation site of serine 428 (G-I-S(p)-P-K) derived from Human ATR.

Storage:

Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

## **Product Images**



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue using ATR (Phospho-Ser428) antibody. The picture on the right is treated with the synthesized peptide.