

# Phospho-ATR-S428 Rabbit mAb

Catalog No.: AP1358 **Recombinant**

## Basic Information

### Observed MW

300kDa

### Calculated MW

301kDa

### Category

Primary antibody

### Applications

WB,ELISA

### Cross-Reactivity

Human

### CloneNo number

ARC55118

## Background

The protein encoded by this gene is a serine/threonine kinase and DNA damage sensor, activating cell cycle checkpoint signaling upon DNA stress. The encoded protein can phosphorylate and activate several proteins involved in the inhibition of DNA replication and mitosis, and can promote DNA repair, recombination, and apoptosis. This protein is also important for fragile site stability and centrosome duplication. Defects in this gene are a cause of Seckel syndrome 1.

## Recommended Dilutions

**WB** 1:1000 - 1:5000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

545

### Swiss Prot

Q13535

### Immunogen

A synthetic phosphorylated peptide around S428 of human ATR (NP\_001175.2).

### Synonyms

FRP1; MEC1; SCKL; FCTCS; SCKL1; Phospho-ATR-S428

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

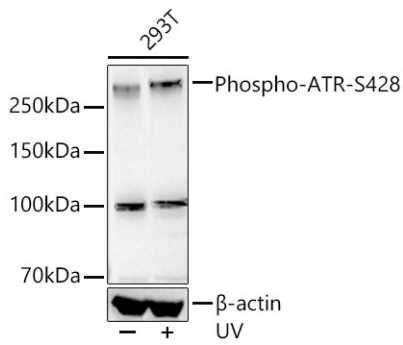
### Storage

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

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

## Validation Data

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Western blot analysis of various lysates, using Phospho-ATR-S428 Rabbit mAb (AP1358) at 1:2000 dilution. 293T cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.