Leader in Biomolecular Solutions for Life Science

www.abclonal.com

# Phospho-ATR-S428 Rabbit mAb

**Catalog No.: AP1582** Recombinant

## Basic Information

**Observed MW**
300kDa

**Calculated MW**
301kDa

**Category**
Primary antibody

**Applications**
WB,IF-P,IHC-P,ELISA

**Cross-Reactivity**
Human

**CloneNo number**
ARC75709

## 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 - 1:2000 |
| **IF-P** | 1:200 - 1:400 |
| **IHC-P** | 1:200 - 1:800 |
| **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**
Synthetic peptide. This information is considered to be commercially sensitive.

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

## Contact


400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn


## Product Information

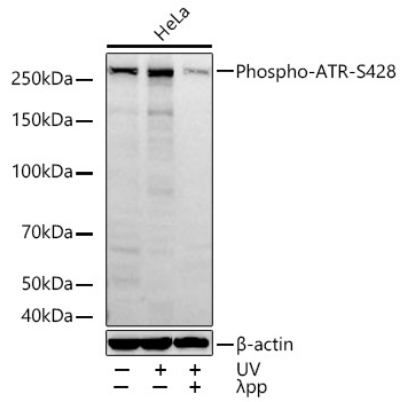
**Source**
Rabbit

**Isotype**
IgG

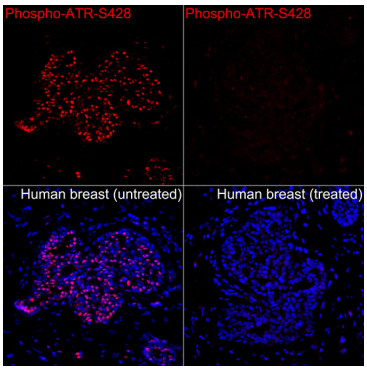
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

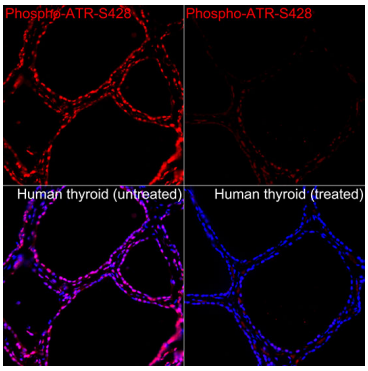
## Validation Data



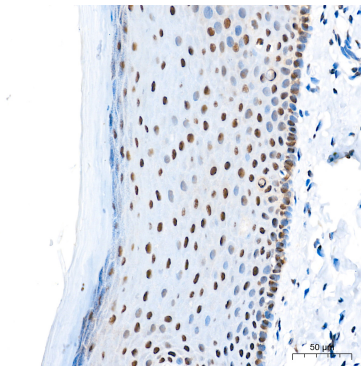

Western blot analysis of lysates from HeLa cells using Phospho-ATR-S428 Rabbit mAb (AP1582) at 1:1000 dilution incubated at room temperature for 1.5 hours. HeLa cells were treated with UV at room temperature for 15-30 minutes and λ-pp (1 mM) for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.



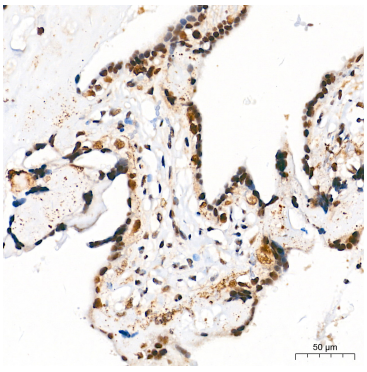

Immunofluorescence analysis of Human breast tissue (untreated) and Human breast tissue (treated with λpp) using Phospho-ATR-S428 Rabbit mAb (AP1582) at a dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining.



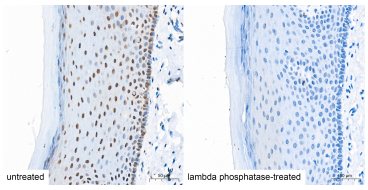

Immunofluorescence analysis of Human thyroid tissue (untreated) and Human thyroid tissue (treated with λpp) using Phospho-ATR-S428 Rabbit mAb (AP1582) at a dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining.



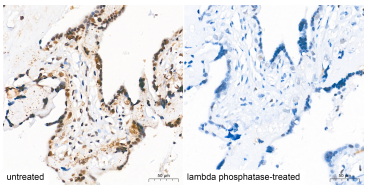
Immunohistochemistry analysis of paraffin-embedded Human cervix tissue using Phospho-ATR-S428 Rabbit mAb (AP1582) at a dilution of 1:600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using Phospho-ATR-S428 Rabbit mAb (AP1582) at a dilution of 1:600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.




Immunohistochemistry analysis of paraffin-embedded Human cervix(untreated) and Human cervix(lambda phosphatase-treated) tissue using Phospho-ATR-S428 Rabbit mAb (AP1582) at a dilution of 1:600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.




Immunohistochemistry analysis of paraffin-embedded Human placenta(untreated) and Human placenta(lambda phosphatase-treated) tissue using Phospho-ATR-S428 Rabbit mAb (AP1582) at a dilution of 1:600 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.