

Phospho-ATR-S428 Rabbit pAb

Catalog No.: AP0676

5 Publications

Basic Information

Observed MW

300kDa

Calculated MW

301kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

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 | 1:100 - 1:500 |
| IHC-P | 1:50 - 1:200 |
| IF/ICC | 1:50 - 1:200 |

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

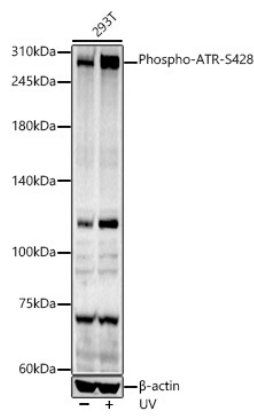
Affinity purification

Storage

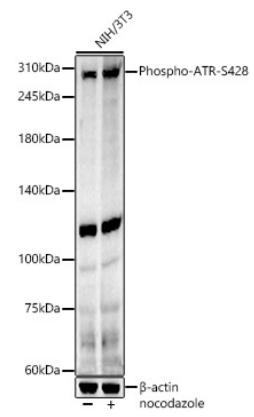
Store at -20°C. Avoid freeze / thaw cycles.

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

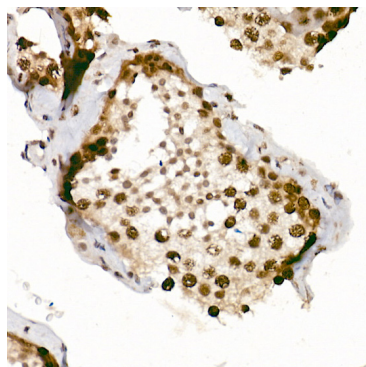
Validation Data



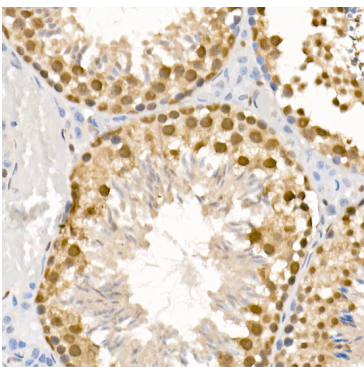
Western blot analysis of 293T, using Phospho-ATR-S428 antibody (AP0676) at 1:400 dilution.293T cells were treated by UV at room temperature for 15-30 minutes.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



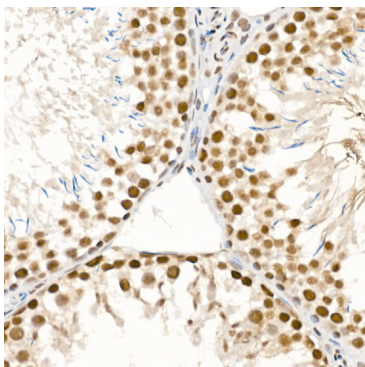
Western blot analysis of NIH/3T3, using Phospho-ATR-S428 antibody (AP0676) at 1:400 dilution.NIH/3T3 cells were treated by Nocodazole (50 ng/ml) at 37°C for 20 hours.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



Immunohistochemistry analysis of ATR in paraffin-embedded human testis using Phospho-ATR-S428 Rabbit pAb (AP0676) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

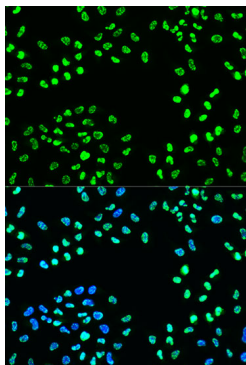


Immunohistochemistry analysis of ATR in paraffin-embedded mouse testis using Phospho-ATR-S428 Rabbit pAb (AP0676) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of ATR in paraffin-embedded rat testis using Phospho-ATR-S428 Rabbit pAb (AP0676) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Validation Data



Immunofluorescence analysis of U2OS cells using Phospho-ATR-S428 antibody (AP0676) at dilution of 1:100. Blue: DAPI for nuclear staining.