

## **Product datasheet for TA373854S**

### **ATR Rabbit Polyclonal Antibody**

### **Product data:**

Reactivity:

**Product Type:** Primary Antibodies

**Applications:** ICC/IF, IHC, WB

Recommended Dilution: WB,1:500 - 1:2000

IHC,1:50 - 1:200 IF,1:50 - 1:200

Human, Mouse, Rat

17,1.30 - 1.200

Modifications: Phospho S428

**Host:** Rabbit

Isotype: IgG

Clonality: Polyclonal

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

**Formulation:** Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

**Concentration:** lot specific

**Purification:** Affinity purification

Conjugation: Unconjugated

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

**Stability:** Shelf life: one year from despatch.

**Predicted Protein Size:** 294kDa/297kDa/301kDa

**Gene Name:** ATR serine/threonine kinase

Database Link: Entrez Gene 545 Human

Q13535



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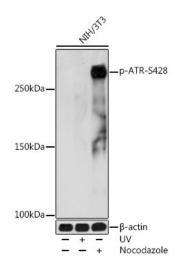


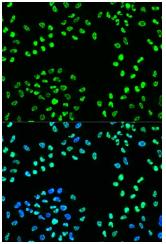
#### Background:

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.

**Synonyms:** FRP1; MEC1; SCKL; SCKL1

# **Product images:**





Western blot analysis of extracts of NIH/3T3 cells, using Phospho-ATR-S428 antibody ([TA373854]) at 1:1000 dilution.NIH/3T3 cells were treated by UV at room temperature for 15-30 minutes.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) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit. | Exposure time:

Immunofluorescence analysis of U2OS cells using Phospho-ATR-S428 antibody ([TA373854]) at dilution of 1:100. Blue: DAPI for nuclear staining.