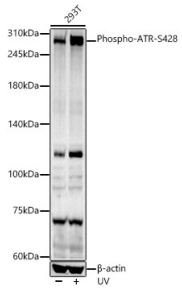
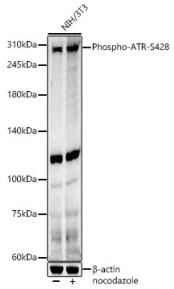
Product Data Sheet:
ATR (phospho-S428) Rabbit Polyclonal Antibody

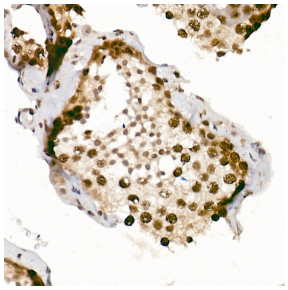
Cat. No:	ABP10098
Conjugate:	Unconjugated
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	A synthetic phosphorylated peptide around S428 of human ATR.
Reactivity:	Hu,man, Mouse, Rat
Applications:	Western Blot: 1:100 – 1:500 Immunohistochemistry(paraffin-embedded tissues): 1:50 – 1:200 Immunofluorescence: 1:50 – 1:200 Immunocytochemistry: 1:50 – 1:200
Molecular Weight:	300kDa
Purification:	Affinity purification
Synonyms:	FRP1; MEC1; SCKL; FCTCS; SCKL1
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.
Form:	Liquid
Buffer:	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Storage:	Store at -20℃. Avoid repeated freeze-thaw cycles.



Western blot analysis of 293T, using Phospho-ATR-S428 antibody 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) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL West Pico Plus.



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



Immunohistochemistry analysis of paraffin-embedded human testis using Phospho-ATR-S428 Rabbit pAb 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.

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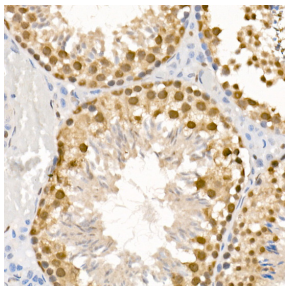
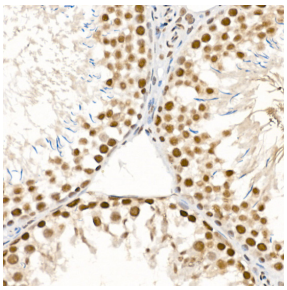
Exposure time: 90s.

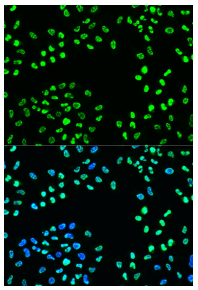


Immunohistochemistry analysis of paraffin-embedded mouse testis using Phospho-ATR-S428 Rabbit pAb at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Exposure time: 90s.



Immunohistochemistry analysis of paraffin-embedded rat testis using Phospho-ATR-S428 Rabbit pAb 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.



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

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