

For Research Use Only

Phospho-ATR (Ser428) Recombinant monoclonal antibody

Catalog Number: 86330-1-RR



Basic Information

Catalog Number:

86330-1-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001184

GeneID (NCBI):

545

UNIPROT ID:

Q13535

Full Name:

ataxia telangiectasia and Rad3 related

Calculated MW:

301 kDa

Observed MW:

300 kDa

Purification Method:

Protein A purification

CloneNo.:

250988D3

Recommended Dilutions:

WB: 1:1000-1:6000

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human

Positive Controls:

WB : HEK-293 cells,

IF/ICC : HEK-293 cells,

Background Information

Ataxia-telangiectasia and Rad3 related (ATR) is a serine/threonine kinase and a member of the phosphatidylinositol 3-kinase-related kinase (PIKK) family, particularly the ataxia telangiectasia mutated (ATM) subfamily. The phosphorylation site of ATR is located at Ser428 and is crucial for proper ATR function. In a series of breast cancer studies, high ATR expression and activation were significantly associated with higher tumor stage, mitotic index, pleomorphism, lymphovascular invasion, and poor survival. (PMID: 33854565)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

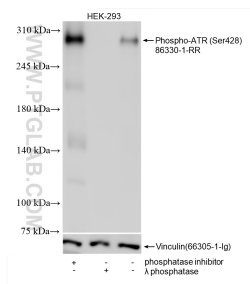
T: 4006900926

E: Proteintech-CN@ptglab.com

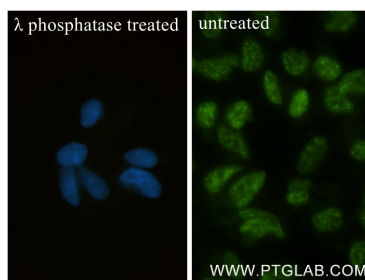
W: ptgcn.com

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Selected Validation Data



Non-treated HEK-293 cells, phosphatase inhibitor treated HEK-293 cells and λ phosphatase treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 86330-1-RR (Phospho-ATR (Ser428) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin (66305-1-Ig) antibody as a loading control.



Immunofluorescent analysis of (4% PFA) fixed λ phosphatase treated HEK-293 cells using Phospho-ATR (Ser428) antibody (86330-1-RR, Clone: 250988D3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).