

## Rabbit Phospho-ATR-T1989 Polyclonal Antibody | anti-ATR-T1989 antibody

Phospho-ATR-T1989 Rabbit pAb

|                               |                       |                                        |                                                           |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA282140</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|

### PRODUCT SYNONYMS

Phospho-ATR-T1989; Polyclonal Antibody; Phospho-ATR-T1989 Rabbit pAb; ATR; FCTCS; FRP1; MEC1; SCKL; SCKL1; anti-ATR-T1989 antibody

### PRODUCT SPECIFICATIONS

|                                                     |                                                                                       |
|-----------------------------------------------------|---------------------------------------------------------------------------------------|
| Host                                                | Rabbit                                                                                |
| Reactivity                                          | Human, Mouse, Rat                                                                     |
| Clonality                                           | Polyclonal                                                                            |
| Isotype                                             | IgG                                                                                   |
| Purity/Purification                                 | Affinity purification                                                                 |
| Form/Format                                         | PBS with 0.02% sodium azide, 50% glycerol, pH7.3.                                     |
| Applicable Applications for anti-ATR-T1989 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                         |
| Immunogen                                           | A phospho synthetic peptide corresponding to residues surrounding T1989 of Human ATR. |
| Cellular Location                                   | Chromosome, Nucleus, PML body                                                         |
| Positive Samples                                    | HeLa                                                                                  |
| Preparation and Storage                             | Store at -20 degree C. Avoid freeze/thaw cycles.                                      |

### IMAGES



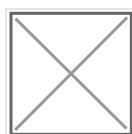
#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat heart using Phospho-ATR-T1989 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.



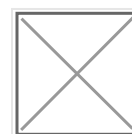
#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse lung using Phospho-ATR-T1989 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.



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human lung cancer using Phospho-ATR-T1989 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.



#### WB (Western Blot)

Western blot analysis of extracts of HeLa cells, using Phospho-ATR-T1989 antibody at 1:1000 dilution. HeLa cells were treated by Hydroxyurea (4 mM) at 37°C for 20 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.

ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ATR-T1989 antibody | 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. |
| Product Categories/Family for anti-ATR-T1989 antibody   | Epigenetics & Nuclear Signaling; Epigenetic writers and erasers of core Histones; Phosphorylation; Research; Epigenetics & Nuclear Signaling; DNA Damage & Repair; Research; Protein phosphorylation; Research; Signal Transduction; Kinase; Serine/threonine k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 157266317                                                                                                                                                                                            |
| NCBI GeneID                      | 545                                                                                                                                                                                                  |
| NCBI Accession #                 | NP_001175.2                                                                                                                                                                                          |
| NCBI GenBank Nucleotide #        | NM_001184.3                                                                                                                                                                                          |
| UniProt Accession #              | Q13535; Q59HB2; Q7KYL3; Q93051; Q9BXX4                                                                                                                                                               |
| Molecular Weight                 | 301,367 Da                                                                                                                                                                                           |
| NCBI Official Full Name          | serine/threonine-protein kinase ATR                                                                                                                                                                  |
| NCBI Official Synonym Full Names | ataxia telangiectasia and Rad3 related                                                                                                                                                               |
| NCBI Official Symbol             | ATR                                                                                                                                                                                                  |
| NCBI Official Synonym Symbols    | FRP1; MEC1; SCKL; FCTCS; SCKL1                                                                                                                                                                       |
| NCBI Protein Information         | serine/threonine-protein kinase ATR; Rad3 related protein; FRAP-related protein 1; FRAP-related protein-1; MEC1, mitosis entry checkpoint 1, homolog; ataxia telangiectasia and Rad3-related protein |
| UniProt Protein Name             | Serine/threonine-protein kinase ATR                                                                                                                                                                  |
| UniProt Gene Name                | ATR                                                                                                                                                                                                  |
| UniProt Synonym Gene Names       | FRP1                                                                                                                                                                                                 |
| UniProt Entry Name               | ATR_HUMAN                                                                                                                                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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