

Rabbit ATR Polyclonal Antibody | anti-ATR antibody

Phospho-ATR(Ser428) Antibody

CATALOG # AAA327182	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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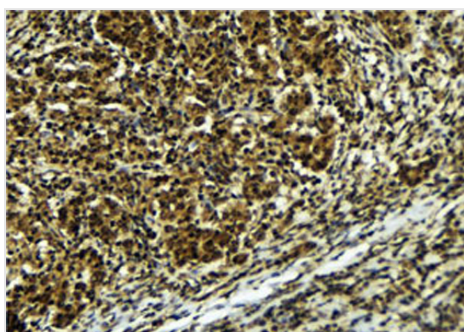
PRODUCT SYNONYMS

ATR; Polyclonal Antibody; Phospho-ATR(Ser428) Antibody; Ataxia telangiectasia and Rad3 related; Ataxia telangiectasia and Rad3-related protein; ATR_HUMAN; FCTCS; FRAP Related Protein 1; FRAP-related protein 1; FRP1; MEC1; MEC1 mitosis entry checkpoint 1 homolog; Protein kinase ATR; RAC3; Rad3 related protein; SCKL; SCKL1; Serine/threonine protein kinase ATR; Serine/threonine-protein kinase ATR; anti-ATR antibody

PRODUCT SPECIFICATIONS

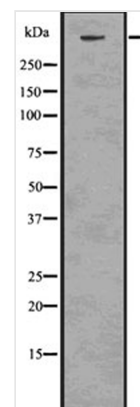
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	phospho-ATR(S428) antibody detects endogenous levels of ATR only when phosphorylated at S428
Purity/Purification	Peptide affinity purification
Form/Format	Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	2644
Applicable Applications for anti-ATR antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human phospho-ATR(S428)
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA327182 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of phospho-ATR(S428) using COLO205 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-ATR antibody	Function: Serine/threonine protein kinase which activates checkpoint signaling upon genotoxic stresses such as ionizing radiation (IR), ultraviolet light (UV), or DNA replication stalling, thereby acting as a DNA damage sensor. Recognizes the substrate consensus sequence [ST]-Q. Phosphorylates BRCA1, CHEK1, MCM2, RAD17, RPA2, SMC1 and p53/TP53, which collectively inhibit DNA replication and mitosis and promote DNA repair, recombination and apoptosis. Phosphorylates 'Ser-139' of histone variant H2AX/H2AFX at sites of DNA damage, thereby regulating DNA damage response mechanism. Required for FANCD2 ubiquitination. Critical for maintenance of fragile site stability and efficient regulation of centrosome duplication.
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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	300 kDa
NCBI Official Full Name	serine/threonine-protein kinase ATR isoform 1
NCBI Official Synonym Full Names	ATR serine/threonine kinase
NCBI Official Symbol	ATR
NCBI Official Synonym Symbols	FRP1; MEC1; SCKL; FCTCS; SCKL1
NCBI Protein Information	serine/threonine-protein kinase ATR
UniProt Protein Name	Serine/threonine-protein kinase ATR
UniProt Gene Name	ATR
UniProt Synonym Gene Names	FRP1

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.