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Datasheet for ABIN7138618 anti-ATR antibody (pSer428)

1 Image

Overview

Quantity:	100 µL
Target:	ATR
Binding Specificity:	pSer428
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATR antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of serine 428 (G-I-S(p)-P-K) derived from Human ATR.
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

Target Details

Target:	ATR
Alternative Name:	ATR (ATR Products)

Target Details

Background:	<p>Background: 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.</p> <p>Aliases: Ataxia telangiectasia and Rad3 related antibody, Ataxia telangiectasia and Rad3-related protein antibody, ATR antibody, ATR_HUMAN antibody, FCTCS antibody, FRAP Related Protein 1 antibody, FRAP-related protein 1 antibody, FRP1 antibody, MEC1 antibody, MEC1 mitosis entry checkpoint 1 homolog antibody, Protein kinase ATR antibody, RAC3 antibody, Rad3 related protein antibody, SCKL antibody, SCKL1 antibody, Serine/threonine protein kinase ATR antibody, Serine/threonine-protein kinase ATR antibody</p>
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UniProt:	Q13535
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Pathways:	Positive Regulation of Response to DNA Damage Stimulus
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Application Details

Application Notes:	IHC:1:50-1:100,
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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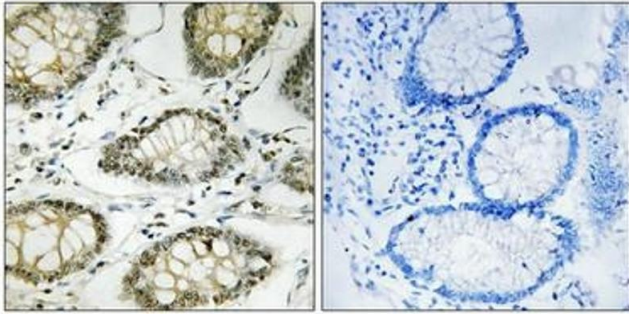
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C,-80 °C
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Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
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Immunohistochemistry

Image 1. Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue using ATR (Phospho-Ser428) antibody. The picture on the right is treated with the synthesized peptide.