



Datasheet for ABIN6255330  
**anti-ATR antibody (pSer428)**



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2 Images

Overview

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

Product Details

Immunogen:	A synthesized peptide derived from human phospho -ATR(S428)
Isotype:	IgG
Specificity:	Phospho -ATR(S428) Antibody detects endogenous levels of ATR only when phosphorylated at S428
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:	ATR
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## Target Details

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Alternative Name: [ATR \(ATR Products\)](#)

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Background: Description: 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.

Gene: ATR

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Molecular Weight: 300 kDa

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Gene ID: 545

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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

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Application Notes: WB 1:1000-3000 IHC 1:200

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: Rabbit IgG in phosphate buffered saline , 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.

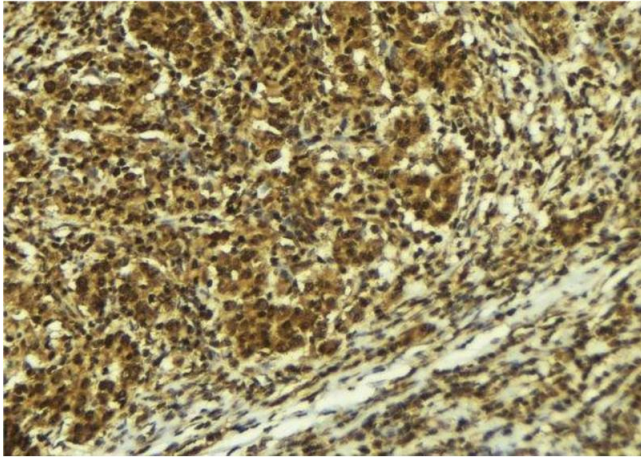
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Storage: -20 °C

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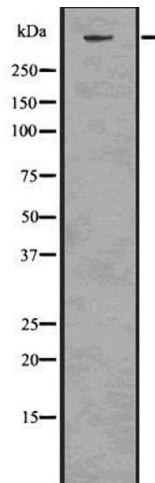
Storage Comment: Store at -20 °C.Stable for 12 months from date of receipt

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#### Immunohistochemistry

**Image 1.** ABIN6277725 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°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



#### Western Blotting

**Image 2.** Western blot analysis of phospho -ATR(S428) using COLO205 whole cell lysates