

Datasheet for ABIN7169012
anti-ATR antibody (AA 2405-2644) (Biotin)



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Overview

Quantity:	100 µg
Target:	ATR
Binding Specificity:	AA 2405-2644
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATR antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Serine/threonine-protein kinase ATR protein (2405-2644AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	ATR
Alternative Name:	ATR (ATR Products)
Background:	Background: Serine/threonine protein kinase which activates checkpoint signaling upon genotoxic stresses such as ionizing radiation (IR), ultraviolet light (UV), or DNA replication

Target Details

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.

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

UniProt:	Q13535
Pathways:	Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.