Datasheet for ABIN7111876

anti-ATR antibody

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Overview

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

Product Details

Immunogen:	ataxia telangiectasia and Rad3 related
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	ATR
Alternative Name:	ATR (ATR Products)
Background:	Synonyms:ATR, FRAP related protein 1, FRP1, MEC1, SCKL, SCKL1 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

Target Details

	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.
Molecular Weight:	250-290kd
Gene ID:	545
UniProt:	Q13535
Pathways:	Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	WB: 1:300-1:1000, IP: 1:200-1:1000, IHC: 1:50-1:500, IF: 1:50-1:500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C for 12 months (Avoid repeated freeze / thaw cycles.)
Expiry Date:	12 months

