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Datasheet for ABIN7467984 **anti-ATR antibody (pThr1989)**

Overview

Quantity:	100 µL
Target:	ATR
Binding Specificity:	pThr1989
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ATR antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide surrounding phospho Thr1989 of human ATR. The exact sequence is proprietary.
Clone:	GT222
Isotype:	IgG2b
Cross-Reactivity:	Human
Purification:	Affinity purified by Protein A.

Target Details

Target:	ATR
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Target Details

Alternative Name:	ATR serine/threonine kinase (ATR Products)
Background:	<p>Synonyms: ATR serine/threonine kinase , FCTCS , FRP1 , MEC1 , SCKL , SCKL1</p> <p>Background: The protein encoded by this gene belongs the PI3/PI4-kinase family, and is most closely related to ATM, a protein kinase encoded by the gene mutated in ataxia telangiectasia. This protein and ATM share similarity with Schizosaccharomyces pombe rad3, a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. This kinase has been shown to phosphorylate checkpoint kinase CHK1, checkpoint proteins RAD17, and RAD9, as well as tumor suppressor protein BRCA1. Mutations of this gene are associated with Seckel syndrome. An alternatively spliced transcript variant of this gene has been reported, however, its full length nature is not known. Transcript variants utilizing alternative polyA sites exist. [provided by RefSeq]</p>
Molecular Weight:	301 kDa
Gene ID:	545
UniProt:	Q13535
Pathways:	p53 Signaling , Apoptosis , DNA Damage Repair , Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IP: 1:100-1:500. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: HCT116 , HCT116(100 J/m2 UVC and recover for 6hr) Validation: Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS (pH 7), 20 % Glycerol, No Preservative
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid

multiple freeze-thaw cycles.