

Datasheet for ABIN1449281

**anti-ATR antibody**[Go to Product page](#)**1** Image

## Overview

Quantity:	0.1 mg
Target:	ATR
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ATR antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	Carrier protein (CP) conjugated synthetic peptide
Sequence:	CPCELEHSIK PLFQHSPGDS SQED
Clone:	4D7
Isotype:	IgG1
Specificity:	This antibody reacts with human ATR.
Purification:	Protein A agarose

## Target Details

Target:	ATR
Alternative Name:	ATR / FRP1 ( <a href="#">ATR Products</a> )
Background:	ATR (ataxia telangiectasia and Rad-3-related) is one of the most important checkpoint proteins

## Target Details

in mammalian cells responding to DNA damage. ATR is a member of the phosphatidylinositol kinase-related protein family that includes ATM (ataxia telangiectasia mutated). These kinases are essential for signaling the presence of DNA damage or replication blocks and activating cell cycle checkpoints. It is reported that checkpoint kinase 1 (CHK1), RAD9, RAD17, Histone H2AX, p53, and BRCA1 are phosphorylated in response to genotoxic stress in an ATR-dependent manner. ATR also phosphorylates ATR-interacting protein (ATRIP) that regulates ATR expression, and is an essential component of the DNA damage checkpoint signaling pathways. In addition, homozygous deletion of ATR in mice causes early embryonic lethality, suggesting that ATR has essential functions during development. Synonyms: Ataxia telangiectasia and Rad3-related protein, FRAP-related protein 1, Serine/threonine-protein kinase ATR

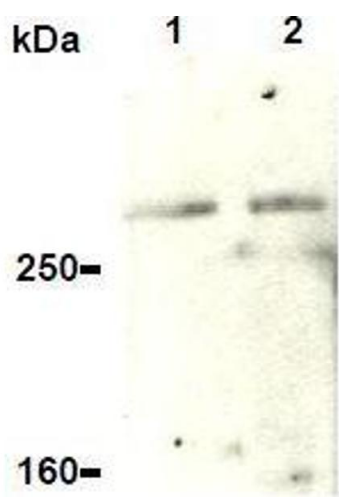
Gene ID:	545
NCBI Accession:	<a href="#">NP_001175</a>
UniProt:	<a href="#">Q13535</a>
Pathways:	<a href="#">p53 Signaling</a> , <a href="#">Apoptosis</a> , <a href="#">DNA Damage Repair</a> , <a href="#">Positive Regulation of Response to DNA Damage Stimulus</a>

## Application Details

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

## Handling

Concentration:	1.0 mg/mL
Buffer:	PBS containing 50 % glycerol, pH 7.2. Contains no preservatives.
Preservative:	Without preservative
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Upon receipt, store (in aliquots) at -20 °C.



Western Blotting

Image 1.