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Datasheet for ABIN6137358
anti-ATR antibody (AA 1400-1500)

1 Image

Overview

Quantity:	100 µL
Target:	ATR
Binding Specificity:	AA 1400-1500
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATR antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1400-1500 of human ATR (NP_001175.2).
Sequence:	LTRAYLAYAD NSRAQDSAAY AIQELLSIYD CREMETNGPG HQLWRRFPEH VREILEPHLN TRYKSSQKST DWSGVKKPIY LSKLGSNFAE WSASWAGYLI T
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	ATR
Alternative Name:	ATR (ATR Products)
Background:	<p>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.</p> <p>ATR,FCTCS,FRP1,MEC1,SCKL,SCKL1,Epigenetics & Nuclear Signaling,Chromatin Modifying Enzymes,Phosphorylation,DNA Damage & Repair,Cancer,Tumor suppressors,Signal Transduction,Kinase,Serine/threonine kinases,Cell Biology & Developmental Biology,Apoptosis,Mitochondrial Control of Apoptosis,Cell Cycle,G1/S Checkpoint,G2/M DNA Damage Checkpoint,ATR</p>
Molecular Weight:	294 kDa/297 kDa/301 kDa
Gene ID:	545
UniProt:	Q13535
Pathways:	Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

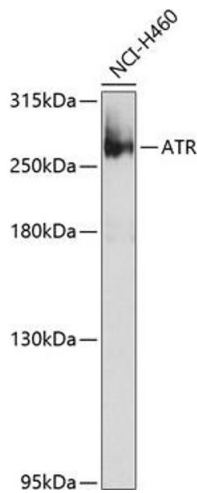
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,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

Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of NCI-H460 cells, using ATR Antibody (ABIN6134559, ABIN6137358, ABIN6137360 and ABIN6223084) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.