Datasheet for ABIN363072

anti-ATR antibody (AA 426-430)

Go to Product page

Overview

Quantity:	100 µL
Target:	ATR
Binding Specificity:	AA 426-430
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATR antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

Product Details

Immunogen:	Peptide sequence around AA 426-430 (G-I-S-P-K) derived from Human ATR. Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates.
Isotype:	IgG
Specificity:	The antibody detects endogenous level of total ATR protein.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography usingepitope-specific immunogen.

Target Details

Target:	ATR
Alternative Name:	ATR (ATR Products)

Target Details

Background:	ATR 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.
Molecular Weight:	250 kDa
NCBI Accession:	NP_001175
UniProt:	Q13535
Pathways:	Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	Immunohistochemistry: 1:50-1:100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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:	4 °C/-20 °C
Storage Comment:	Store at -20 °C for long term preservation (recommended). Store at 4 °C for short term use.