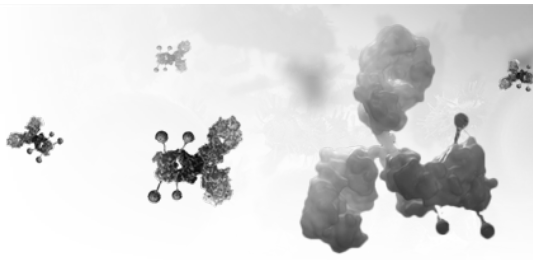

Anti-ATR (aa 2545-2644) polyclonal antibody (DPAB-DC2330)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	ATR (NP_001175, 2545 a.a. ~ 2644 a.a) partial recombinant protein with GST tag. The sequence is DQREPLMSVLKTFLHDPLVEWSKPVKGHSKAPLNETGEVVNEKAKTHVLDIEQRLQGVIK TRNRVTGLPLSIEGHVHYLIQEATDENLLCQMYLGWTPYM
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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GENE INFORMATION

Gene Name	ATR ATR serine/threonine kinase [Homo sapiens (human)]
Official Symbol	ATR
Synonyms	ATR; ATR serine/threonine kinase; FRP1; MEC1; SCKL; FCTCS; SCKL1; serine/threonine-protein kinase ATR; protein kinase ATR; Rad3 related protein; FRAP-related protein 1; FRAP-related protein-1; ataxia telangiectasia and Rad3 related; MEC1, mitosis entry checkpoint 1, homolog; ataxia telangiectasia and Rad3-related protein;
Entrez Gene ID	545
Protein Refseq	NP_001175
UniProt ID	Q13535
Chromosome Location	3q23
Pathway	Activation of ATR in response to replication stress; Cell Cycle; Cell cycle; Cellular response to heat stress
Function	ATP binding; DNA binding; MutLalpha complex binding; MutSalpha complex binding

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