

Product datasheet for **AM20413PU-N**

ATR (2545-2645) Mouse Monoclonal Antibody [Clone ID: 1E9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1E9
Applications:	ELISA, IHC
Recommended Dilution:	ELISA. Immunohistochemistry on Paraffin Sections: 5 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	aTR (NP_001175, 2545 a.a. ~ 2645 a.a) partial recombinant protein with GST tag
Specificity:	Recognizes Ataxia Telangiectasia and Rad3 Related (ATR) at aa 2545-2645.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ATR serine/threonine kinase
Database Link:	Entrez Gene 545 Human Q13535



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Background:

The protein encoded by this gene belongs to 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.

Synonyms:

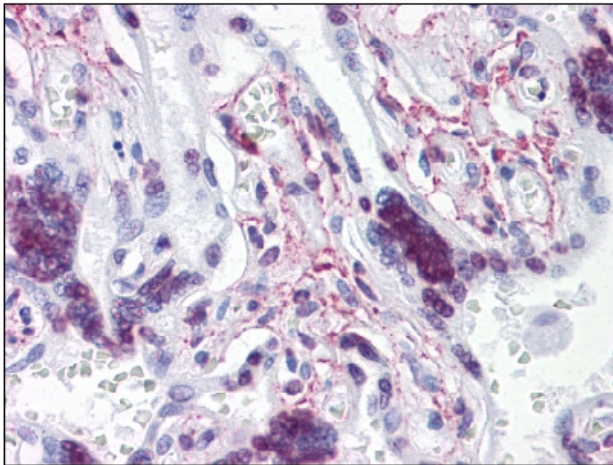
FRAP-related protein 1

Protein Families:

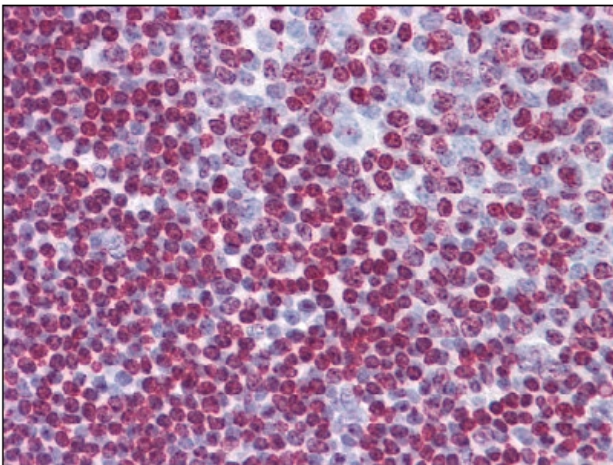
Druggable Genome, Protein Kinase

Protein Pathways:

Cell cycle, p53 signaling pathway

Product images:

Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Tonsil: Formalin-Fixed, Paraffin-Embedded (FFPE)