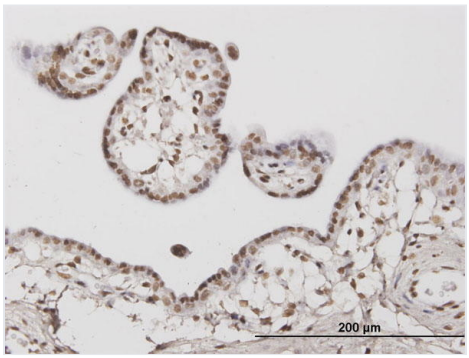
ATR Antibody – Mouse Monoclonal

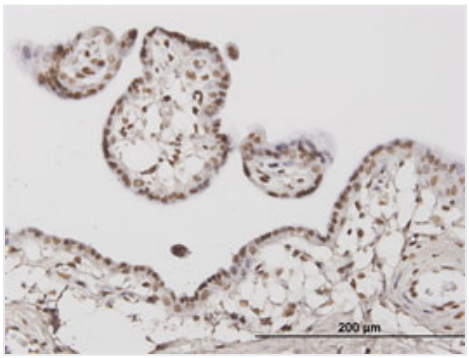
PRODUCT OVERVIEW

Product Name	ATR, Monoclonal Antibody
Full Product Name	ATR (ataxia Telangiectasia and Rad3 Related, FRP1, MEC1, SCKL, SCKL1) (APC)
Product Gene Name	anti-ATR antibody
Product Synonym Names	ataxia Telangiectasia and Rad3 Related; FRP1; MEC1; SCKL; SCKL1
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1.0e+9
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified
Specificity	Recognizes ATR.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	297,479 Da
OMIM	210600
3D Structure	ModBase 3D Structure for Q13535
Immunogen	ATR (NP_001175, 2545aa-2644aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	DQREPLMSVLKTFLHDPLVEWSKPVKGHSKAPLNETGEVVNEKAKTHVLDIEQRLQGVIKTRNRVTGLPLSIEGHVHYLIQEATDENLLCQMYLGWTPYM
Conjugate	APC
Product Categories/Family for anti-ATR antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-ATR antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-ATR antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ATR antibody	MBS6168315 is an antibody targeting ATR. Also known as ATR (ataxia Telangiectasia and Rad3 Related, FRP1, MEC1, SCKL, SCKL1) (APC). Host: Mouse. Mouse monoclonal antibody raised against a partial recombinant ATR.

Other Notes	Small volumes of anti-ATR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Testing Data of anti-ATR antibody
Immunoperoxidase of monoclonal antibody to ATR on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]



Immunohistochemistry (IHC) of anti-ATR antibody
Immunoperoxidase of monoclonal antibody to ATR on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATR. It may not necessarily be applicable to this product.

NCBI GI #	157266317
NCBI GeneID	545
NCBI Accession #	NP_001175
UniProt Primary Accession #	Q13535
UniProt Secondary Accession #	Q59HB2; Q7KYL3; Q93051; Q9BXK4
UniProt Related Accession #	Q13535
GenBank Nucleotide #	NM_001184
NCBI Official Full Name	serine/threonine-protein kinase ATR
NCBI Official Synonym Full Names	ATR serine/threonine kinase
NCBI Official Symbol	ATR
NCBI Official Synonym Symbols	FRP1; MEC1; SCKL; FCTCS; SCKL1
UniProt Protein Name	Serine/threonine-protein kinase ATR
UniProt Synonym Protein Names	Ataxia telangiectasia and Rad3-related protein; FRAP-related protein 1
Protein Family	ATR-interacting protein
UniProt Gene Name	ATR
UniProt Synonym Gene Names	FRP1
UniProt Entry Name	ATR_HUMAN
NCBI Protein Information	serine/threonine-protein kinase ATR; FRAP-related protein-1; MEC1, mitosis entry checkpoint 1, homolog; ataxia telangiectasia and Rad3-related protein

UniProt Comments for ATR	ATR: a ser/thr kinase of the PIKK family most closely related to ATM. Activates checkpoint signaling upon genotoxic stresses such as ionizing radiation (IR), ultraviolet light (UV), or DNA replication stalling, thereby acting as a DNA damage sensor. Recognizes the substrate consensus sequence [ST]Q. Phosphorylates BRCA1, Chk1, MCM2, RAD17, RPA2, SMC1 and p53, which collectively inhibit DNA replication and mitosis and promote DNA repair, recombination and apoptosis. Phosphorylates 'Ser-139' of histone variant H2AX/H2AFX at sites of DNA damage, thereby regulating DNA damage response mechanism. Required for FANCD2 ubiquitination. Critical for maintenance of fragile site stability and efficient regulation of centrosome duplication. Protein type: Kinase, lipid; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Membrane protein, integral; Protein kinase, atypical; Kinase, protein; ATYPICAL group; PIKK family; ATR subfamily Chromosomal Location of Human Ortholog: 3q23 Cellular Component: XY body; nucleoplasm; Golgi apparatus; PML body; chromosome Molecular Function: protein dimerization activity; protein serine/threonine kinase activity; protein binding; DNA binding; MutLalpha complex binding; MutSalpha complex binding; ATP binding; protein kinase activity Biological Process: response to drug; peptidyl-serine phosphorylation; negative regulation of DNA replication; multicellular organismal development; protein amino acid autophosphorylation; regulation of protein binding; DNA damage checkpoint; positive regulation of DNA damage response, signal transduction by p53 class mediator; DNA replication; cell cycle; DNA repair; response to DNA damage stimulus; double-strand break repair via homologous recombination Disease: Seckel Syndrome 1; Cutaneous Telangiectasia And Cancer Syndrome, Familial
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Online datasheet: https://www.mybiosource.com/monoclonal-antibody/atr/6168315