

À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-ATR



Numéro de catalogue: 19787-1-AP

Phare

25 Publications

Informations de base

Numéro de catalogue:
19787-1-AP

Taille:
150ul, Concentration: 600 µg/ml by
Nanodrop;

Hôte:
Lapin

Isotype:
IgG

Numéro d'acquisition GenBank:
NM_001184

Identification du gène (NCBI):
545

Nom complet:
ataxia telangiectasia and Rad3
related

MW calculé
301 kDa

MW observés:
250-290 kDa

Méthode de purification:
Purification par affinité contre
l'antigène

Dilutions recommandées:
WB 1:500-1:1000
IP 0.5-4.0 ug for IP and 1:500-1:1000
for WB

Applications

Applications testées:
IP, WB, ELISA

Demandes citées:
IHC, WB

Spécificité de l'espèce:
Humain, souris

Espèces citées:
Humain, rat, souris

Contrôles positifs:

WB : cellules HeLa, tissu testiculaire de souris

IP : tissu testiculaire de souris,

Informations générales

ATR, also named as FRP1, belongs to the PI3/PI4-kinase family and ATM subfamily. ATR is a serine/threonine protein kinase which 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. ATR recognizes the substrate consensus sequence [ST]-Q. ATR phosphorylates BRCA1, CHEK1, MCM2, RAD17, RPA2, SMC1 and TP53/p53, which collectively inhibit DNA replication and mitosis and promote DNA repair, recombination and apoptosis. ATR phosphorylates 'Ser-139' of histone variant H2AX/H2AFX at sites of DNA damage, thereby regulating DNA damage response mechanism. It is required for FANCD2 ubiquitination. It is critical for maintenance of fragile site stability and efficient regulation of centrosome duplication. ATR catalyze the reaction: ATP + a protein = ADP + a phosphoprotein. Defects in ATR are a cause of Seckel syndrome type 1 (SCKL1) which is a rare autosomal recessive disorder characterized by growth retardation, microcephaly with mental retardation, and a characteristic 'bird-headed' facial appearance. The antibody can recognize all the isoforms of ATR.

Publications notables

Autrice	Pubmed ID	Journal	Application
Jingyuan Sun	33087136	J Exp Clin Cancer Res	WB
Xiufang Song	26451628	Chem Res Toxicol	WB
Mingdong Liu	30297842	Nat Commun	WB

Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de BSA.

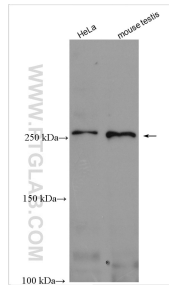
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T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
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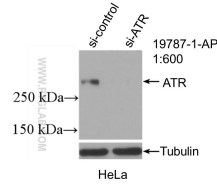
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

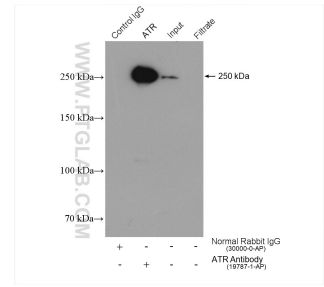
Données de validation sélectionnées



Various lysates were subjected to SDS PAGE followed by western blot with 19787-1-AP (ATR antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



WB result of ATR antibody (19787-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATR transfected HeLa cells.



IP result of anti-ATR(IP:19787-1-AP, 4ug; Detection:19787-1-AP 1:500) with mouse testis tissue lysate 2040 ug.