

Anti-ATR (phospho S428) antibody [EPR2184] - BSA and Azide free ab230831

重组 RabMAb

1 References 4 图像

概述

产品名称	Anti-ATR (phospho S428)抗体[EPR2184] - BSA and Azide free
描述	兔单克隆抗体[EPR2184] to ATR (phospho S428) - BSA and Azide free
宿主	Rabbit
特异性	<i>Stimulation may be required to allow detection of the phosphorylated protein. Please see images below for recommended treatment conditions and positive controls.</i>
经测试应用	适用于: WB, IHC-P, Dot blot 不适用于: Flow Cyt, ICC/IF or IP
种属反应性	与反应: Human 不与反应: Mouse, Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HeLa cell lysate treated with Okadaic Acid + Calyculin A, HEK-293 cell lysate; Human prostate and Human testis tissues.
常规说明	ab230831 is the carrier-free version of ab178407 . Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar [®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar [®] is a trademark of Fluidigm Canada Inc.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: 100% PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR2184
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab230831于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use at an assay dependent concentration. Predicted molecular weight: 300 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Dot blot		Use at an assay dependent concentration.

应用说明 Is unsuitable for Flow Cyt, ICC/IF or IP.

靶标

功能	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. Recognizes the substrate consensus sequence [ST]-Q. Phosphorylates BRCA1, CHEK1, MCM2, RAD17, RPA2, SMC1 and p53/TP53, 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.
组织特异性	Ubiquitous, with highest expression in testis. Isoform 2 is found in pancreas, placenta and liver but not in heart, testis and ovary.
疾病相关	Defects in ATR are a cause of Seckel syndrome type 1 (SCKL1) [MIM:210600]. SCKL1 is a rare autosomal recessive disorder characterized by growth retardation, microcephaly with mental retardation, and a characteristic 'bird-headed' facial appearance.
序列相似性	Belongs to the PI3/PI4-kinase family. ATM subfamily. Contains 1 FAT domain. Contains 1 FATC domain. Contains 2 HEAT repeats.

Contains 1 PI3K/PI4K domain.

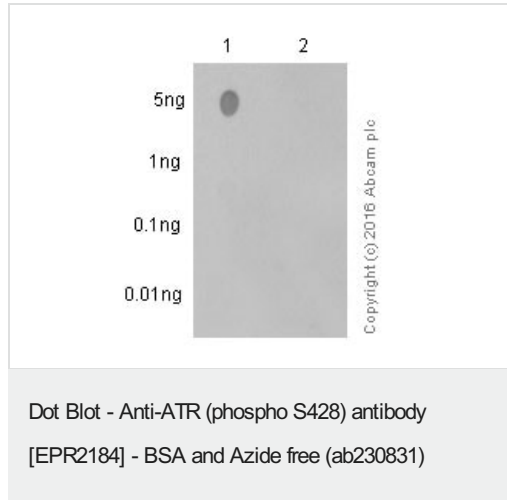
翻译后修饰

Phosphorylated; autophosphorylates in vitro.

细胞定位

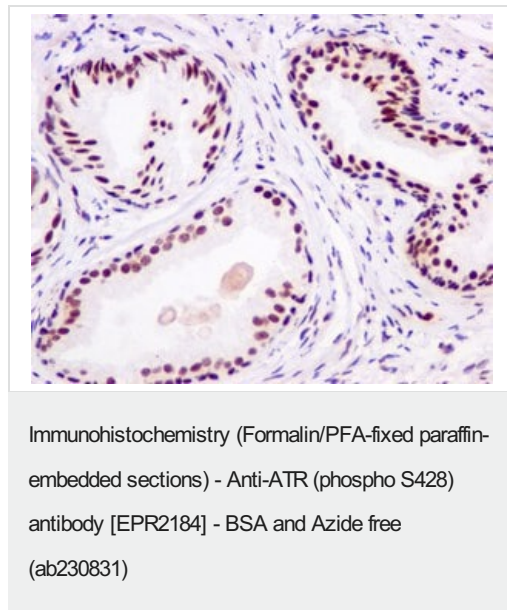
Nucleus. Nucleus > PML body. Depending on the cell type, it can also be found in PML nuclear bodies. Recruited to chromatin during S-phase. Redistributes to discrete nuclear foci upon DNA damage, hypoxia or replication fork stalling.

图片



Dot Blot analysis of Lane 1: ATR (pS428) phospho peptide and Lane 2: ATR non-phospho peptide labeling ATR (phospho S428) with [ab178407](#) at 1/1000 dilution. 5% NFDN/TBST was used as the diluting and blocking buffer. [ab97051](#) Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated was used as the secondary antibody at 1/100000 dilution. Exposure time: 10 seconds.

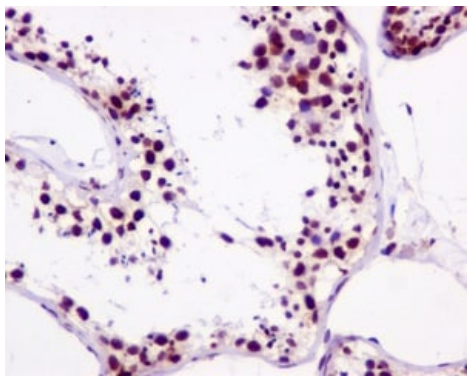
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab178407](#)).



This IHC data was generated using the same phospho anti-ATR antibody clone, EPR2184, in a different buffer formulation (cat# [ab178407](#)).

Immunohistochemical analysis of paraffin embedded Human prostate tissue labeling ATR (phospho S428) with [ab178407](#) at 1/50.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATR (phospho S428) antibody [EPR2184] - BSA and Azide free (ab230831)

This IHC data was generated using the same phospho anti-ATR antibody clone, EPR2184, in a different buffer formulation (cat# **ab178407**).

Immunohistochemical analysis of paraffin embedded Human testis tissue labeling ATR (phospho S428) with **ab178407** at 1/50.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-ATR (phospho S428) antibody [EPR2184] - BSA and Azide free (ab230831)

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