abcam

Product datasheet

Anti-WSTF antibody [EPR1703] ab109439





重组 RabMAb

5 图像

概述

产品名称 Anti-WSTF抗体[EPR1703]

描述 兔单克隆抗体[EPR1703] to WSTF

宿主 Rabbit

适用于: WB 经测试应用

不适用于: ICC/IF,IHC-P or IP

种属反应性 与反应: Mouse, Rat, Human

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 WB: HAP1, 293T, HeLa, HT-1080, PC-12, and SH-SY5Y cell lysates.

常规说明 This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

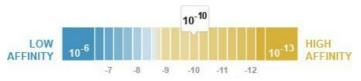
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**® **patents**.

性能

形式 Liquid

Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. 存放说明

 $K_D = 1.23 \times 10^{-10} M$ 解离常数(KD)



Learn more about K_D

存储溶液 pH: 7.20

Preservative: 0.05% Sodium azide

Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue

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culture supernatant

纯**度** Protein A purified

克隆 单克隆

克隆编号 EPR1703

同种型 IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab109439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		1/1000 - 1/10000. Detects a band of approximately 185 kDa (predicted molecular weight: 171 kDa).

应用说明 Is unsuitable for ICC/IF.IHC-P or IP.

靶标

功能

Atypical tyrosine-protein kinase that plays a central role in chromatin remodeling and acts as a transcription regulator. Involved in DNA damage response by phosphorylating 'Tyr-142' of histone H2AX (H2AXY142ph). H2AXY142ph plays a central role in DNA repair and acts as a mark that distinguishes between apoptotic and repair responses to genotoxic stress. Essential component of the WICH complex, a chromatin remodeling complex that mobilizes nucleosomes and reconfigures irregular chromatin to a regular nucleosomal array structure. The WICH complex regulates the transcription of various genes, has a role in RNA polymerase I and RNA polymerase III transcription, mediates the histone H2AX phosphorylation at 'Tyr-142', and is involved in the maintenance of chromatin structures during DNA replication processes. In the complex, it mediates the recruitment of the WICH complex to replication foci during DNA replication. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene. In the WINAC complex, plays an essential role by targeting the complex to acetylated histones, an essential step for VDR-promoter association.

组织特异性

Ubiquitously expressed with high levels of expression in heart, brain, placenta, skeletal muscle and ovary.

疾病相关

Note=BAZ1B is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region. Haploinsufficiency of BAZ1B may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in the disease.

序列相似性

Belongs to the WAL family. BAZ1B subfamily.

Contains 1 bromo domain.

Contains 1 DDT domain.

Contains 1 PHD-type zinc finger.

Contains 1 WAC domain.

发展阶段 Expressed at equal levels in 19-23 weeks old fetal tissues.

结**构域** The N-terminal part (1-345), including the WAC domain and the C motif, mediates the tyrosine-

protein kinase activity.

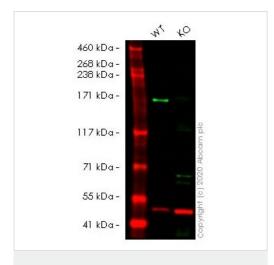
The bromo domain mediates the specific interaction with acetylated histones.

翻译后修饰 Phosphorylated upon DNA damage, probably by ATM or ATR.

细胞定位 Nucleus. Accumulates in pericentromeric heterochromatin during replication. Targeted to

replication foci throughout S phase via its association with PCNA.

图片



Western blot - Anti-WSTF antibody [EPR1703] (ab109439)

All lanes : Anti-WSTF antibody [EPR1703] (ab109439) at 1/1000 dilution

Lane 1: Wild-type HeLa cell lysate

Lane 2: WSTF knockout HeLa cell lysate

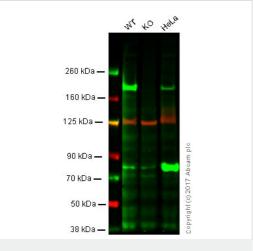
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 171 kDa **Observed band size:** 171 kDa

Lanes 1-2: Merged signal (red and green). Green - ab109439 observed at 171 kDa. Red - Anti-alpha Tubulin antibody [DM1A] - Loading Control (ab7291) observed at 50 kDa.

ab109439 was shown to react with WSTF in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line ab264907 (knockout cell lysate ab257370) was used. Wild-type HeLa and WSTF knockout HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab109439 and Anti-alpha Tubulin antibody [DM1A] - Loading Control (ab7291) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit lgG H&L (IRDye®800CW) preadsorbed (ab216773) and Goat anti-Mouse lgG H&L (IRDye®680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-WSTF antibody [EPR1703]

(ab109439)

All lanes: Anti-WSTF antibody [EPR1703] (ab109439) at 1/1000 dilution

Lane 1: Wild type HAP1 whole cell lysate

Lane 2: BAZ1B knockout HAP1 whole cell lysate

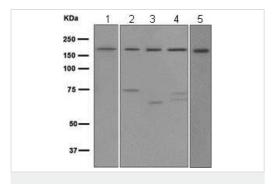
Lane 3: HeLa whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 171 kDa

Lanes 1 - 3: Merged signal (red and green). Green - ab109439 observed at 171 kDa. Red - loading control, ab18058, observed at 130 kDa.

Ab109439 was shown to recognize BAZ1B in wild-type cells along with additional cross-reactive bands as signal was lost in BAZ1B knockout samples. Wild-type and BAZ1B knockout samples were subjected to SDS-PAGE. Ab109439 and ab18058 (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-WSTF antibody [EPR1703] (ab109439)

All lanes: Anti-WSTF antibody [EPR1703] (ab109439) at 1/1000 dilution

Lane 1: 293T cell lysates

Lane 2: HeLa cell lysates

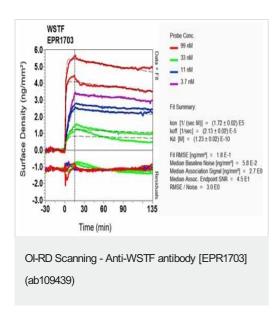
Lane 3: HT-1080 cell lysates

Lane 4: PC-12 cell lysates

Lane 5: SH-SY5Y cell lysates

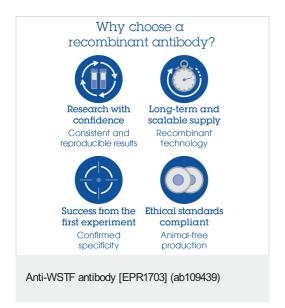
Lysates/proteins at 10 µg per lane.

Predicted band size: 171 kDa Observed band size: 185 kDa



Equilibrium disassociation constant (K_D) Learn more about K_D

Click here to learn more about K_D



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