abcam

Product datasheet

# Anti-WSTF antibody ab70263

1 References 3 图像

## 概述

| | |
|---|---|
| **产品名称** | Anti-WSTF抗体 |
| **描述** | 兔多克隆抗体to WSTF |
| **宿主** | Rabbit |
| **经测试应用** | **适用于:** WB, IP, IHC-P |
| **种属反应性** | **与反应:** Human<br>**预测可用于:** Rat, Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Opossum, Orangutan |
| **免疫原** | A region between residues 1 and 50 of Human WSTF (SwissProt entry Q9UIG0) |
| **常规说明** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

## 性能

| | |
|---|---|
| **形式** | Liquid |
| **存放说明** | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| **存储溶液** | pH: 6.8<br>Preservative: 0.09% Sodium azide<br>Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS |
| **纯度** | Immunogen affinity purified |
| **克隆** | 多克隆 |
| **同种型** | IgG |

## 应用

| | |
|---|---|
| **The Abpromise guarantee** | Abpromise™承诺保证使用ab70263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 200 kDa (predicted molecular weight: 171 kDa). |
| **IP** | | Use at 2-5 µg/mg of lysate. |
| **IHC-P** | | 1/100 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |

## 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.

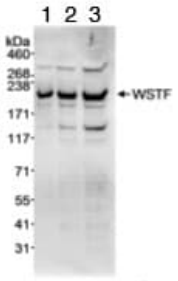
**翻译后修饰**

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

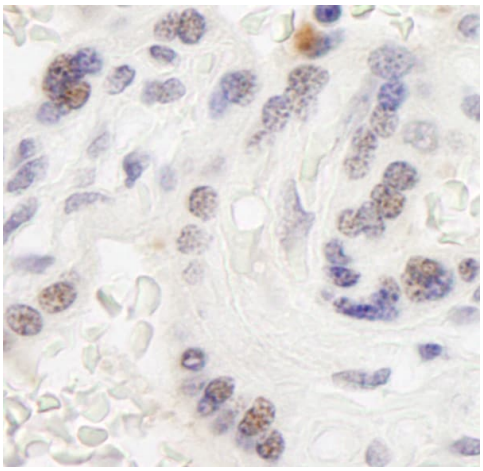



Western blot - Anti-WSTF antibody (ab70263)

**All lanes :** Anti-WSTF antibody (ab70263) at 0.05 µg/ml

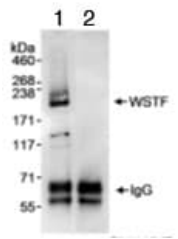
**Lane 1 :** Whole cell lysate from HeLa cells at 5 µg
**Lane 2 :** Whole cell lysate from HeLa cells at 15 µg
**Lane 3 :** Whole cell lysate from HeLa cells at 50 µg

**Predicted band size:** 171 kDa
**Observed band size:** 200 kDa
**Additional bands at:** 140 kDa, 190 kDa, 300 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WSTF antibody (ab70263)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta tissue labelling WSTF with ab70263 at 1/200 (1µg/ml). Detection: DAB.




Immunoprecipitation - Anti-WSTF antibody (ab70263)

1 mg of whole cell lysate from HeLa cells was immunoprecipitated using ab70263 at 3ug/mg lysate (lane 1) or a control rabbit Ig (lane 2). The subsequent blot was carried with ab70263 at 0.05ug/ml.

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