

Anti-ZIP Kinase antibody [EPR1635] ab79422

敲除验证
重组
RabMAb

4 图像

概述

产品名称	Anti-ZIP Kinase抗体[EPR1635]
描述	兔单克隆抗体[EPR1635] to ZIP Kinase
宿主	Rabbit
经测试应用	适用于: WB 不适用于: Flow Cyt, ICC/IF, IHC-P or IP
种属反应性	与反应: Human
免疫原	Synthetic peptide corresponding to Human ZIP Kinase aa 1-100 (N terminal). Database link: O43293
阳性对照	WB: HEK293T, HeLa and A431 cell lysates.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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 . Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
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 culture supernatant
纯度	Protein A purified

克隆	单克隆
克隆编号	EPR1635
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab79422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。

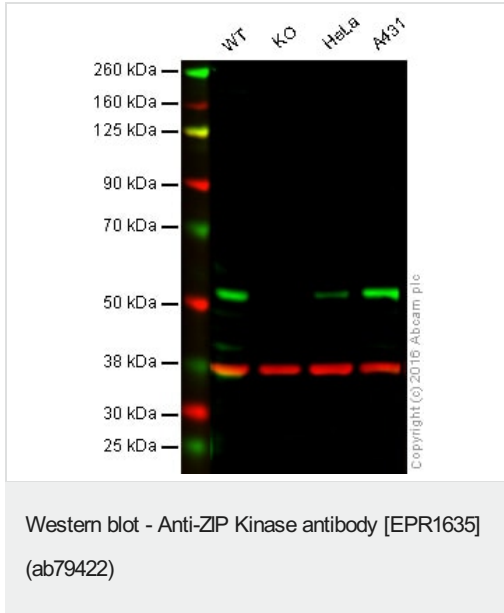
应用	Ab评论	说明
WB		1/5000 - 1/10000. Detects a band of approximately 53 kDa (predicted molecular weight: 53 kDa).

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

靶标

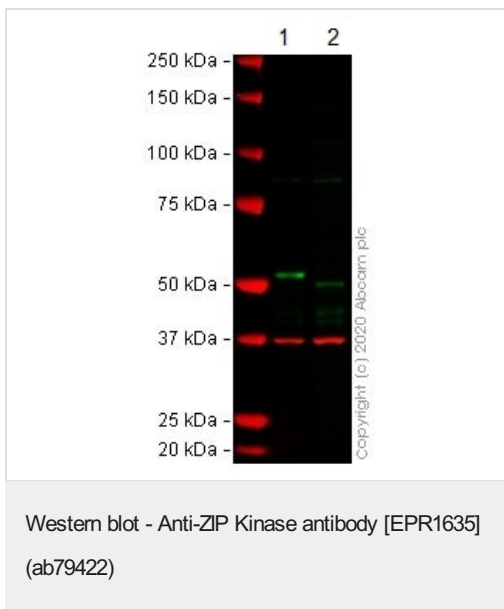
功能	Serine/threonine kinase which acts as a positive regulator of apoptosis. Phosphorylates histone H3 on 'Thr-11' at centromeres during mitosis. Regulates myosin light chain phosphatase through phosphorylation of MYPT1 thereby regulating the assembly of the actin cytoskeleton, cell migration, invasiveness of tumor cells, smooth muscle contraction and neurite outgrowth. Involved in the formation of promyelocytic leukemia protein nuclear body (PML-NB), one of many subnuclear domains in the eukaryotic cell nucleus, and which is involved in oncogenesis and viral infection.
序列相似性	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. DAP kinase subfamily. Contains 1 protein kinase domain.
翻译后修饰	Ubiquitinated. Ubiquitination mediated by the UBE2D3 E3 ligase does not lead to proteasomal degradation, but influences promyelocytic leukemia protein nuclear bodies (PML-NBs) formation in the nucleus. Autophosphorylated. Phosphorylated by ROCK1.
细胞定位	Nucleus. Cytoplasm. Nucleus > PML body. Relocates to the cytoplasm on binding PAWR where the complex appears to interact with actin filaments (By similarity). Localizes to promyelocytic leukemia protein nuclear bodies (PML-NBs). Associates to centromeres from prophase to anaphase.

图片



Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: DAPK3 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: A431 whole cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab79422 observed at 53 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab79422 was shown to specifically react with DAPK3 in wild-type HAP1 cells along with other cross-reactive bands. No bands were observed when DAPK3 knockout samples were examined. Wild-type and DAPK3 knockout samples were subjected to SDS-PAGE. Ab79422 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/10,000 dilution respectively. Blots were developed with 800CW Goat anti Rabbit and 680CW Goat anti Mouse secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-ZIP Kinase antibody [EPR1635] (ab79422) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate
Lane 2 : DAPK3 CRISPR/Cas9 edited HEK293T cell lysate

Lysates/proteins at 20 µg per lane.

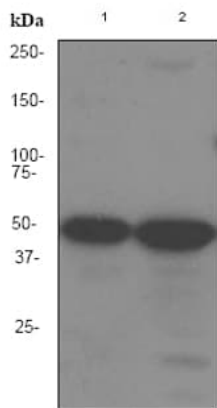
Performed under reducing conditions.

Predicted band size: 53 kDa

Observed band size: 53 kDa

Lanes 1- 2: Merged signal (red and green). Green - ab79422 observed at 53 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

ab79422 was shown to react with ZIP Kinase in wild-type HEK-293T cells in western blot. The band observed in CRISPR/Cas9 edited cell line **ab266755** (CRISPR/Cas9 edited cell lysate **ab257407**) lane below 53kDa may represent truncated forms and cleaved fragments. This has not been investigated further. Wild-type HEK-293T and DAPK3 CRISPR/Cas9 edited HEK-293T 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. ab79422 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at a 1 in 5000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-ZIP Kinase antibody [EPR1635] (ab79422)

All lanes : Anti-ZIP Kinase antibody [EPR1635] (ab79422) at 1/5000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : A431 cell lysate

Lysates/proteins at 10 µg per lane.




Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 53 kDa

Observed band size: 53 kDa

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-ZIP Kinase antibody [EPR1635] (ab79422)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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