

Anti-PIM1 antibody [ZP003] ab54503

敲除 验证

5 References 2 图像

概述

产品名称	Anti-PIM1抗体[ZP003]
描述	小鼠单克隆抗体[ZP003] to PIM1
宿主	Mouse
经测试应用	适用于: WB
种属反应性	与反应: Human
免疫原	Synthetic peptide derived from the internal region of the human PIM1 protein, which is 94% and 88% homologous with rat and mouse, respectively.
阳性对照	WB: K562 cytoplasmic or nuclear lysate.
常规说明	<p>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.</p> <p>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</p>

性能

形式	Liquid
存放说明	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.
存储溶液	<p>pH: 7.40</p> <p>Preservative: 0.1% Sodium azide</p> <p>Constituent: PBS</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	ZP003
同种型	IgG1
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab54503于以下的经测试应用

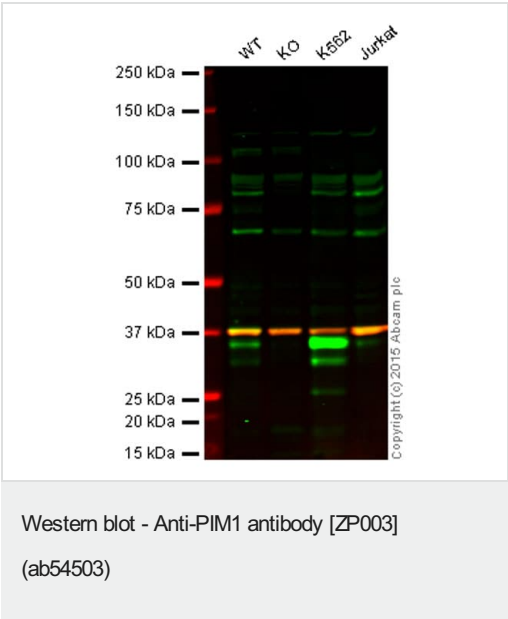
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 35 kDa.

靶标

功能	May affect the structure or silencing of chromatin by phosphorylating HP1 gamma/CBX3. Isoform 2 promotes the G1/S transition of the cell cycle via up-regulation of CDK2 activity and phosphorylation of CDKN1B, resulting in enhanced nuclear export and proteasome-dependent degradation of CDKN1B. Isoform 2 also represses CDKN1B transcription by phosphorylating and inactivating the transcription factor FOXO3. Plays a role in signal transduction in blood cells. Contributes to both cell proliferation and survival and thus provides a selective advantage in tumorigenesis.
组织特异性	Expressed primarily in cells of the hematopoietic and germline lineages. Isoform 1 and isoform 2 are both expressed in prostate cancer cell lines.
序列相似性	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. PIM subfamily. Contains 1 protein kinase domain.
翻译后修饰	Autophosphorylated on both serine/threonine and tyrosine residues.
细胞定位	Cytoplasm. Nucleus and Cell membrane.

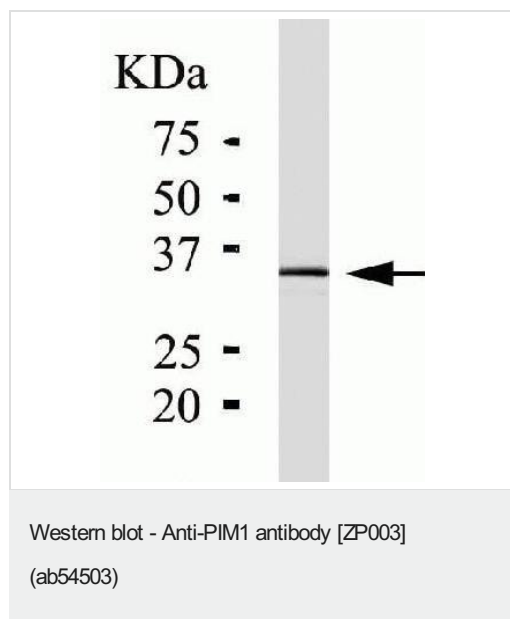
图片



Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: PIM1 knockout HAP1 cell lysate (20 µg)
Lane 3: K562 cell lysate (20 µg)
Lane 4: Jurkat cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab54503 observed at 35 kDa. Red - loading control, **ab181602**, observed at 37 kDa.

ab54503 was shown to recognize PIM1 when PIM1 knockout samples were used, along with additional cross-reactive bands. Wild-type and PIM1 knockout samples were subjected to SDS-PAGE. ab54503 and **ab181602** (loading control to GAPDH) were diluted 3 µg/mL and 1/2000 and incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) secondary antibodies at

1/10000 dilution for 1 h at room temperature before imaging.



Anti-PIM1 antibody [ZP003] (ab54503) at 3 µg/ml + K562 cell lysate

Observed band size: 35 kDa

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

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