

### Anti-PIM1 antibody [ZP003] ab54503

KO 評価済

5 References [画像数 2](#)

#### 製品の概要

製品名	Anti-PIM1 antibody [ZP003]
製品の詳細	Mouse monoclonal [ZP003] to PIM1
由来種	Mouse
アプリケーション	適用あり: WB
種交差性	交差種: 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.
ポジティブ・コントロール	WB: K562 cytoplasmic or nuclear lysate.
特記事項	<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&amp;As</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.40 Preservative: 0.1% Sodium azide Constituent: PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	ZP003
アイソタイプ	IgG1
軽鎖の種類	kappa

## アプリケーション

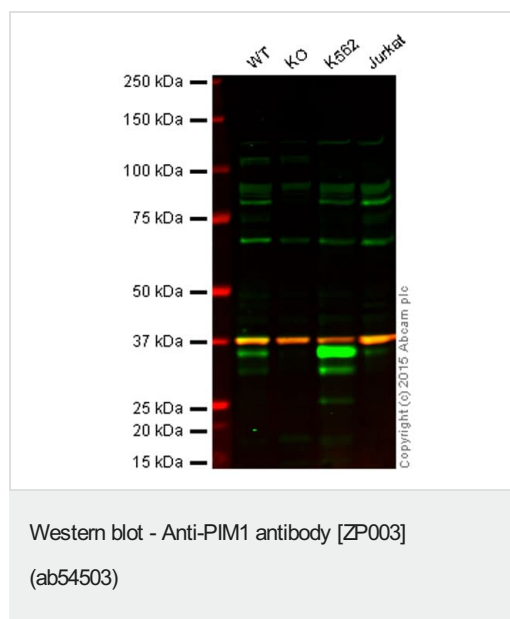
**The Abpromise guarantee** Abpromise保証は、次のテスト済みアプリケーションにおけるab54503の使用に適用されず  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 35 kDa.

## ターゲット情報

<b>機能</b>	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.
<b>組織特異性</b>	Expressed primarily in cells of the hematopoietic and germline lineages. Isoform 1 and isoform 2 are both expressed in prostate cancer cell lines.
<b>配列類似性</b>	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. PIM subfamily. Contains 1 protein kinase domain.
<b>翻訳後修飾</b>	Autophosphorylated on both serine/threonine and tyrosine residues.
<b>細胞内局在</b>	Cytoplasm. Nucleus and Cell membrane.

## 画像



**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

**Lane 2:** PIM1 knockout HAP1 cell lysate (20 µg)

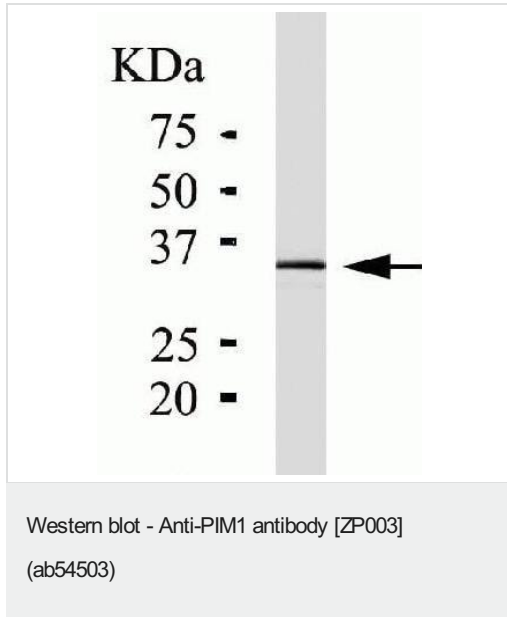
**Lane 3:** K562 cell lysate (20 µg)

**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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