

### Anti-KAP1 antibody [EPR5217] - BSA and Azide free ab215550

KO 評価済 リコンビナント RabMAb

画像数 4

#### 製品の概要

製品名	Anti-KAP1 antibody [EPR5217] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR5217] to KAP1 - BSA and Azide free
由来種	Rabbit
アプリケーション	適用あり: ICC/IF, IHC-P, WB 適用なし: Flow Cyt or IP
種交差性	交差種: Mouse, Human 交差が予測される動物種: Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Hap1, A431, HeLa, PC-3, and F9 cell lysates. IHC-P: Human spleen tissue. ICC/IF: HeLa cells
特記事項	<p>ab215550 is the carrier-free version of <a href="#">ab109289</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR5217
アイソタイプ	IgG

## 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ab215550の使用に適用されます  
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確認ください。

アプリケーション	Abreviews	特記事項
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 110 kDa (predicted molecular weight: 89 kDa).

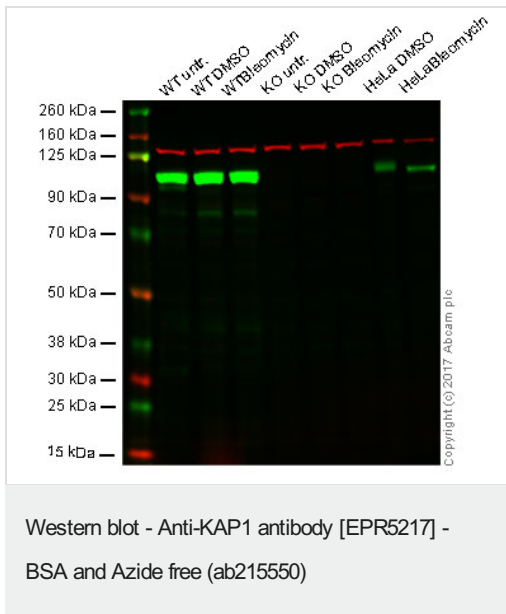
**追加情報**      Is unsuitable for Flow Cyt or IP.

## ターゲット情報

機能	Nuclear corepressor for KRAB domain-containing zinc finger proteins (KRAB-ZFPs). Mediates gene silencing by recruiting CHD3, a subunit of the nucleosome remodeling and deacetylation (NuRD) complex, and SETDB1 (which specifically methylates histone H3 at 'Lys-9' (H3K9me)) to the promoter regions of KRAB target genes. Enhances transcriptional repression by coordinating the increase in H3K9me, the decrease in histone H3 'Lys-9 and 'Lys-14' acetylation (H3K9ac and H3K14ac, respectively) and the disposition of HP1 proteins to silence gene expression. Recruitment of SETDB1 induces heterochromatinization. May play a role as a coactivator for CEBPB and NR3C1 in the transcriptional activation of ORM1. Also corepressor for ERBB4. Inhibits E2F1 activity by stimulating E2F1-HDAC1 complex formation and inhibiting E2F1 acetylation. May serve as a partial backup to prevent E2F1-mediated apoptosis in the absence of RB1. Important regulator of CDKN1A/p21(CIP1). Has E3 SUMO-protein ligase activity toward itself via its PHD-type zinc finger.
組織特異性	Expressed in all tissues tested including spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocytes.

パスウェイ	Protein modification; protein sumoylation.
配列類似性	<p>Belongs to the TRIM/RBCC family.</p> <p>Contains 2 B box-type zinc fingers.</p> <p>Contains 1 bromo domain.</p> <p>Contains 1 PHD-type zinc finger.</p> <p>Contains 1 RING-type zinc finger.</p>
ドメイン	<p>The HP1 box is both necessary and sufficient for HP1 binding.</p> <p>The PHD-type zinc finger enhances CEBPB transcriptional activity. The PHD-type zinc finger, the HP1 box and the bromo domain, function together to assemble the machinery required for repression of KRAB domain-containing proteins. Acts as an intramolecular SUMO E3 ligase for autSUMOylation of bromodomain.</p> <p>The RING-finger-B Box-coiled-coil/tripartite motif (RBCC/TRIM motif) is required for interaction with the KRAB domain of KRAB-zinc finger proteins. Binds four zinc ions per molecule. The RING finger and the N-terminal of the leucine zipper alpha helical coiled-coil region of RBCC are required for oligomerization.</p> <p>Contains one Pro-Xaa-Val-Xaa-Leu (PxVxL) motif, which is required for interaction with chromoshadow domains. This motif requires additional residues -7, -6, +4 and +5 of the central Val which contact the chromoshadow domain.</p>
翻訳後修飾	<p>Phosphorylated upon DNA damage, probably by ATM or ATR. ATM-induced phosphorylation on Ser-824 represses sumoylation leading to the de-repression of expression of a subset of genes involved in cell cycle control and apoptosis in response to genotoxic stress. Dephosphorylation by the phosphatases, PPP1CA and PP1CB forms, allows sumoylation and expression of TRIM28 target genes.</p> <p>Sumoylation/desumoylation events regulate TRIM28-mediated transcriptional repression.</p> <p>Sumoylation is required for interaction with CHD3 and SETDB1 and the corepressor activity.</p> <p>Represses and is repressed by Ser-824 phosphorylation. Enhances the TRIM28 corepressor activity, inhibiting transcriptional activity of a number of genes including GADD45A and CDKN1A/p21. Lys-554, Lys-779 and Lys-804 are the major sites of sumoylation. In response to Dox-induced DNA damage, enhanced phosphorylation on Ser-824 prevents sumoylation and allows de-repression of CDKN1A/p21.</p>
細胞内局在	Nucleus. Associated with centromeric heterochromatin during cell differentiation through CBX1.

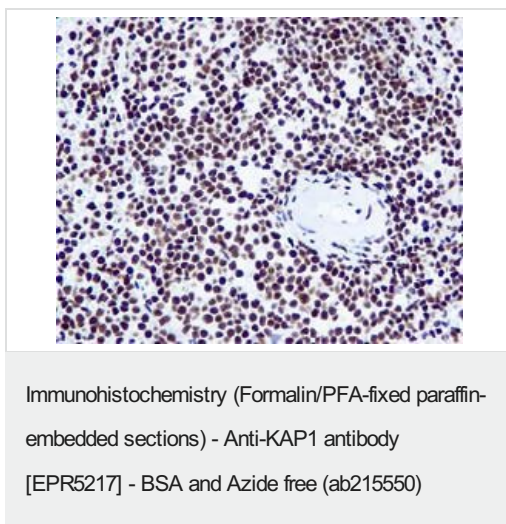
## 画像



- Lane 1:** Wild type HAP1 whole cell lysate (20 µg)  
**Lane 2:** Wild type HAP1 + DMSO whole cell lysate (20 µg)  
**Lane 3:** Wild type HAP1 + Blaomycin whole cell lysate (20 µg)  
**Lane 4:** TRIM28 knockout HAP1 whole cell lysate (20 µg)  
**Lane 5:** TRIM28 knockout HAP1 + DMSO whole cell lysate (20 µg)  
**Lane 6:** TRIM28 knockout HAP1 + Blaomycin whole cell lysate (20 µg)  
**Lane 7:** HeLa + DMSO whole cell lysate (20 µg)  
**Lane 8:** HeLa + Blaomycin whole cell lysate (20 µg)
- Lanes 1 - 8:** Merged signal (red and green). Green - [ab109289](#) observed at 110 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

[ab109289](#) was shown to specifically react with KAP1 in wild type cells as signal was lost in KAP1 knockout cells. Wild-type and KAP1 knockout samples were subjected to SDS-PAGE. Ab109289 and [ab8245](#) (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1000 dilution and 1/20000 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 1/20000 dilution for 1 hour at room temperature before imaging.

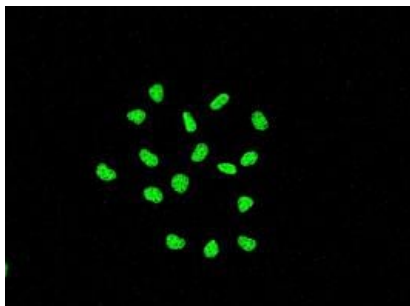
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109289](#)).



Immunohistochemical analysis of paraffin-embedded Human spleen tissue using [ab109289](#) at a dilution of 1/250.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109289](#))

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunofluorescent staining of HeLa cells using **ab109289** at a dilution of 1/100.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109289**)

Immunocytochemistry/ Immunofluorescence - Anti-KAP1 antibody [EPR5217] - BSA and Azide free (ab215550)

#### 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-KAP1 antibody [EPR5217] - BSA and Azide free (ab215550)

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

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