

Anti-KAP1 antibody ab190178

2 References [画像数 3](#)

製品の概要

製品名	Anti-KAP1 antibody
製品の詳細	Rabbit polyclonal to KAP1
由来種	Rabbit
アプリケーション	適用あり: ICC/IF, IP, WB
種交差性	交差種: Mouse, Rat, Chicken, Human
免疫原	Recombinant fragment corresponding to Human KAP1 aa 400-650. Database link: Q13263 Run BLAST with Run BLAST with
ポジティブ・コントロール	U2OS cells transfected with KAP-1 siRNA, U2OS, mouse embryo fibroblast, rat INS-1 and chicken DT40 cell lysate. U2OS cells.
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&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.05% Sodium azide
精製度	Whole antiserum
ポリ/モノ	ポリクローナル
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ab190178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検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		1/2000.
IP		Use at an assay dependent concentration.
WB		1/3000. Predicted molecular weight: 88 kDa.

ターゲット情報

機能	<p>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.</p>
組織特異性	<p>Expressed in all tissues tested including spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocytes.</p>
パスウェイ	<p>Protein modification; protein sumoylation.</p>
配列類似性	<p>Belongs to the TRIM/RBCC family. Contains 2 B box-type zinc fingers. Contains 1 bromo domain. Contains 1 PHD-type zinc finger. Contains 1 RING-type zinc finger.</p>
ドメイン	<p>The HP1 box is both necessary and sufficient for HP1 binding. 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. 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. 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</p>

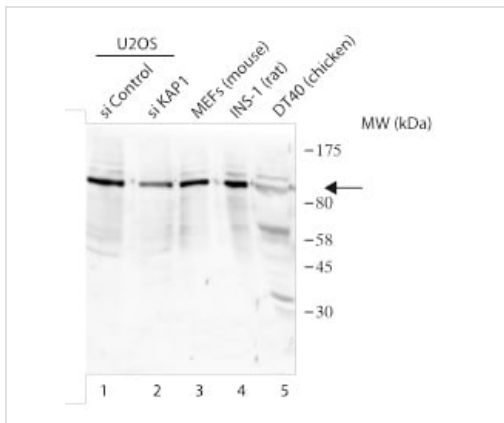
the phosphatases, PPP1CA and PP1CB forms, allows sumoylation and expression of TRIM28 target genes.

Sumoylation/desumoylation events regulate TRIM28-mediated transcriptional repression. Sumoylation is required for interaction with CHD3 and SETDB1 and the corepressor activity. 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.

細胞内局在

Nucleus. Associated with centromeric heterochromatin during cell differentiation through CBX1.

画像



Western blot - Anti-KAP1 antibody (ab190178)

All lanes : Anti-KAP1 antibody (ab190178) at 1/3000 dilution

Lane 1 : Human U2OS cell lysate

Lane 2 : Human U2OS cells transfected with KAP1 siRNA

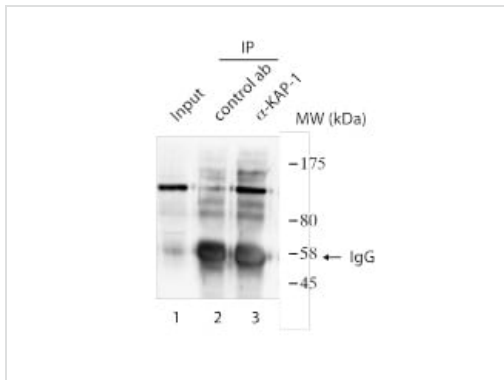
Lane 3 : Mouse embryo fibroblasts (MEFs) cell lysate

Lane 4 : Rat INS1 cell lysate

Lane 5 : Chicken DT40 cell lysate

Lysates/proteins at 20 μ g per lane.

Predicted band size: 88 kDa



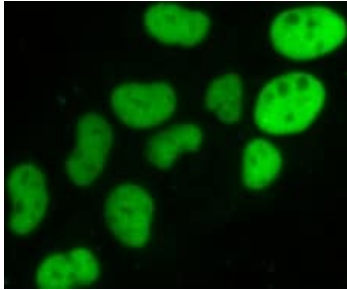
Immunoprecipitation - Anti-KAP1 antibody
(ab190178)

Western blot analysis with ab190178 of immunoprecipitated U2OS cells extracts:

Lane 1: Input.

Lane 2: Immunoprecipitation with control serum.

Lane 3: Immunoprecipitation with ab190178 (5 μ L).



Immunofluorescence analysis of U2OS cells labeling KAP1 using ab190178 at a 1/2000 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-KAP1 antibody (ab190178)

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