

Anti-SUZ12 antibody ab12073

敲除验证

★★★★☆ 27 Abreviews 145 References 5 图像

概述

产品名称	Anti-SUZ12抗体
描述	兔多克隆抗体to SUZ12
宿主	Rabbit
经测试应用	适用于: IP, ChIP, ChIP/Chip, IHC-P, WB, RIP
种属反应性	与反应: Mouse, Human, Common marmoset
免疫原	Synthetic peptide corresponding to Human SUZ12 aa 700 to the C-terminus conjugated to keyhole limpet haemocyanin. (Peptide available as ab12389)
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	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.</p>
纯度	Immunogen affinity purified
克隆	多克隆

同种型lgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab12073于以下的经测试应用

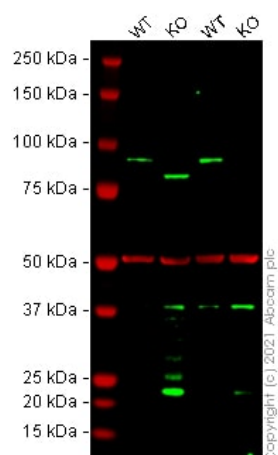
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IP	★★★★★ (3)	Use at an assay dependent concentration.
ChIP	★★★★☆ (9)	Use at an assay dependent concentration.
ChIP/Chip	★★★★★ (1)	Use at an assay dependent concentration.
IHC-P	★★★★★ (2)	Use at an assay dependent concentration.
WB	★★★★☆ (9)	Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 95 kDa (predicted molecular weight: 83 kDa).
RIP	★★★★☆ (2)	Use at an assay dependent concentration. PubMed: 19571010

靶标

功能	Polycomb group (PcG) protein. Component of the PRC2/EED-EZH2 complex, which methylates 'Lys-9' (H3K9me) and 'Lys-27' (H3K27me) of histone H3, leading to transcriptional repression of the affected target gene. The PRC2/EED-EZH2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems. Genes repressed by the PRC2/EED-EZH2 complex include HOXC8, HOXA9, MYT1 and CDKN2A.
组织特异性	Overexpressed in breast and colon cancer.
疾病相关	Note=A chromosomal aberration involving SUZ12 may be a cause of endometrial stromal tumors. Translocation t(7;17)(p15;q21) with JAZF1. The translocation generates the JAZF1-SUZ12 oncogene consisting of the N-terminus part of JAZF1 and the C-terminus part of SUZ12. It is frequently found in all cases of endometrial stromal tumors, except in endometrial stromal sarcomas, where it is rarer.
序列相似性	Belongs to the VEFS (VRN2-EMF2-FIS2-SU(Z)12) family. Contains 1 C2H2-type zinc finger.
发展阶段	Expressed at low levels in quiescent cells. Expression rises at the G1/S phase transition.
细胞定位	Nucleus.

图片



Western blot - Anti-SUZ12 antibody (ab12073)

All lanes : Anti-SUZ12 antibody (ab12073) at 1 µg/ml

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : SUZ12 knockout HeLa cell lysate

Lane 3 : Wild-type HAP1 cell lysate

Lane 4 : SUZ12 knockout HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

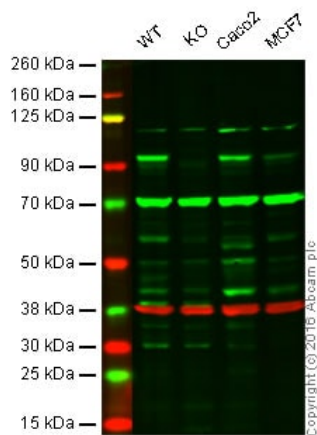
Performed under reducing conditions.

Predicted band size: 83 kDa

Observed band size: 95 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab12073 observed at 95 kDa. Red - loading control, **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

ab12073 was shown to react with SUZ12 in western blot. The band observed in the SUZ12 knockout cell line **ab264983** (SUZ12 knockout cell lysate **ab257721**) lane below 95 kDa is likely to represent a truncated form. This has not been investigated further. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab12073 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at 1 µg/ml and a 1 in 20000 dilution respectively. Blots were incubated 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 in 20000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-SUZ12 antibody (ab12073)

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

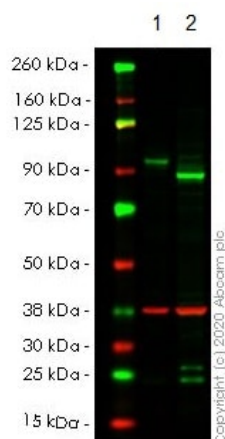
Lane 2: SUZ12 knockout HAP1 cell lysate (20 µg)

Lane 3: Caco2 cell lysate (20 µg)

Lane 4: MCF7 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab12073 observed at 95 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab12073 was shown to specifically recognize SUZ12 in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed when SUZ12 knockout samples were used. Wild-type and SUZ12 knockout samples were subjected to SDS-PAGE. ab12073 and **ab8245** (loading control to GAPDH) were diluted to 1 µg/mL and 1/10,000 respectively and incubated overnight at 4°C. 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 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-SUZ12 antibody (ab12073)

All lanes : Anti-SUZ12 antibody (ab12073)

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : SUZ12 CRISPR/Cas9 edited HeLa cell lysate

Lysates/proteins at 20 µg per lane.

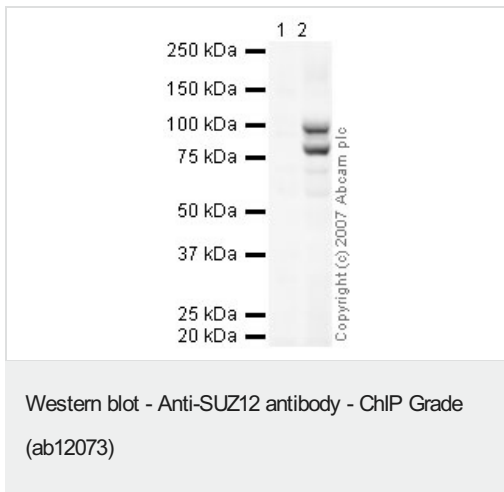
Performed under reducing conditions.

Predicted band size: 83 kDa

Observed band size: 95 kDa

Lanes 1-2: Merged signal (red and green). Green - ab12073 observed at 95 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

ab12073 was shown to react with SUZ12 in wild-type HeLa cells in western blot. The band observed in CRISPR/Cas9 edited cell line **ab264983** (CRISPR/Cas9 edited cell lysate **ab257721**) lane below 95kDa may represent truncated forms and cleaved fragments. This has not been investigated further. Wild-type HeLa and SUZ12 CRISPR/Cas9 edited HeLa 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. ab12073 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at a 1 µg/ml 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.



All lanes : Anti-SUZ12 antibody (ab12073) at 1 µg/ml

Lane 1 : untransfected 293T cell lysate

Lane 2 : 293T cells transfected with 5ug HA-Suz12

Lysates/proteins at 20 µg per lane.

Secondary

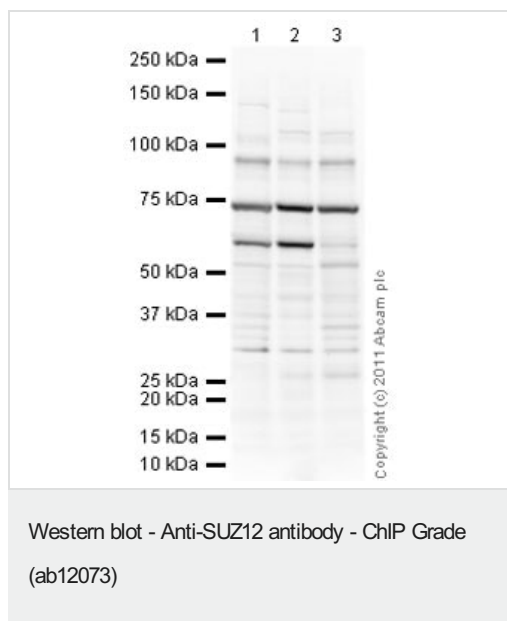
All lanes : Goat polyclonal to Rabbit IgG H&L (HRP) (Dako) at 1/2000 dilution

Performed under reducing conditions.

Predicted band size: 83 kDa

Observed band size: 95 kDa

Additional bands at: 76 kDa. We are unsure as to the identity of these extra bands.



All lanes : Anti-SUZ12 antibody (ab12073) at 1 µg/ml

Lane 1 : SW480 (Human colon adenocarcinoma cell line) Whole Cell Lysate

Lane 2 : MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate

Lane 3 : Caco 2 (Human colonic carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 83 kDa

Observed band size: 95 kDa

Additional bands at: 30 kDa, 53 kDa, 60 kDa, 75 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 4 minutes

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