

Anti-SUZ12 antibody [SUZ220A] ab126577

[6 References](#) [画像数 10](#)

製品の概要

製品名	Anti-SUZ12 antibody [SUZ220A]
製品の詳細	Mouse monoclonal [SUZ220A] to SUZ12
由来種	Mouse
アプリケーション	適用あり: IHC-Fr, Flow Cyt, WB, IHC-P, ICC/IF
種交差性	交差種: Mouse, Human
免疫原	Recombinant full length protein (Human)
ポジティブ・コントロール	IHC: Human tonsil, testicle and thymus tissues; Mouse testicle tissue; V5-tagged Human SUZ12 expressed in Hek293T ICC/IF: Human tonsil WB: Hek-SUZ12-V5, HeLa, Jeko1, MT-2 and U266 cell lysates

特記事項

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.

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

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: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA
精製度	Tissue culture supernatant
ポリ/モノ	モノクローナル
クローン名	SUZ220A
アイソタイプ	IgG1

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ab126577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
IHC-Fr		Use at an assay dependent concentration.
Flow Cyt		Use 0.1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		1/15. Detects a band of approximately 83 kDa (predicted molecular weight: 83 kDa).
IHC-P		1/30. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.

ターゲット情報

機能	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.
組織特異性	Overexpressed in breast and colon cancer.
関連疾患	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.
配列類似性	Belongs to the VEFS (VRN2-EMF2-FIS2-SU(Z)12) family. Contains 1 C2H2-type zinc finger.
発生段階	Expressed at low levels in quiescent cells. Expression rises at the G1/S phase transition.
細胞内局在	Nucleus.

画像



Western blot - Anti-SUZ12 antibody [SUZ220A] (ab126577)

All lanes : Anti-SUZ12 antibody [SUZ220A] (ab126577) at 1/100 dilution

Lane 1 : Hek-SUZ12-V5 lysate at 30 µg

Lane 2 : Hek-mTIMP2 lysate at 30 µg

Lane 3 : Hela cell line lysate at 200 µg

Lane 4 : Jeko1 cell line lysate at 200 µg

Lane 5 : Human tonsil lysate at 200 µg

Lane 6 : Human brain lysate at 200 µg

Lane 7 : MT-2 cell line lysate at 200 µg

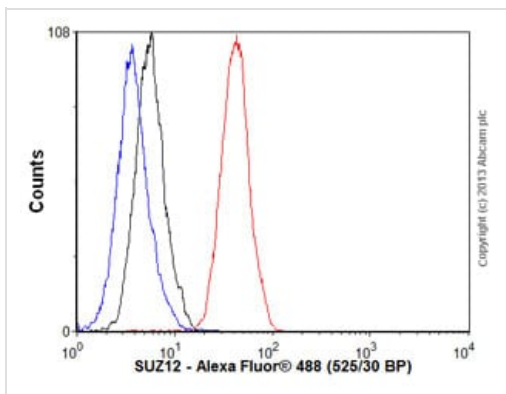
Lane 8 : 3T3 Mouse cell line lysate at 200 µg

Lane 9 : U266 cell line lysate at 200 µg

Predicted band size: 83 kDa

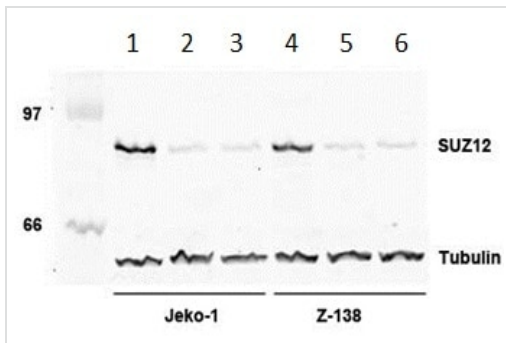
Observed band size: 83 kDa

Note: A purified version of the antibody was used at 1/100 (stock solution at 1mg/ml).



Flow Cytometry - Anti-SUZ12 antibody [SUZ220A] (ab126577)

Overlay histogram showing MCF7 cells stained with ab126577 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab126577, 0.1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H+L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Western blot - Anti-SUZ12 antibody [SUZ220A] (ab126577)

All lanes : Anti-SUZ12 antibody [SUZ220A] (ab126577)

Lanes 1 & 4 : Empty vector

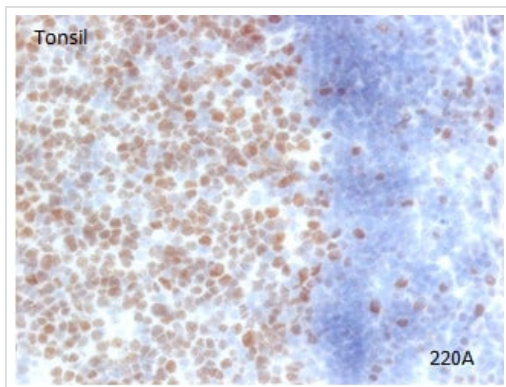
Lanes 2 & 5 : shSUZ12.783

Lanes 3 & 6 : shSUZ12.2076

Predicted band size: 83 kDa

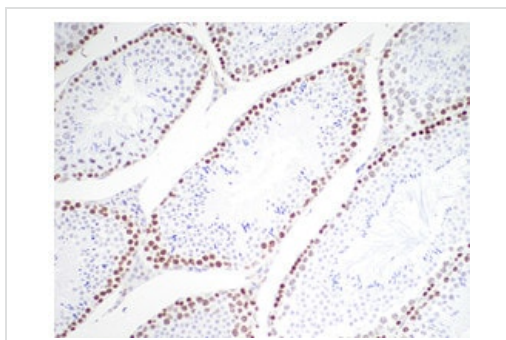
Observed band size: 83 kDa

Effect of SUZ12 RNA interference (siRNA) in Jeko-1 and Z-138 mantle cell lymphoma cell lines treated with two different hairpins against SUZ12 during three days. A control cell line (empty vector) was used as negative control. Expression of SUZ12 was analyzed using ab126577. A decrease of protein expression was observed in siSUZ12 Jeko-1 and Z-138 cell extracts confirming antibody specificity. Band signals were normalized with tubulin as a loading control.



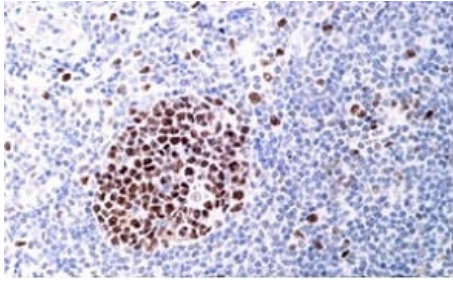
Immunohistochemistry (Frozen sections) - Anti-SUZ12 antibody [SUZ220A] (ab126577)

Purified version of ab126577, at 1/500, staining SUZ12 in frozen Human tonsil tissue by Immunohistochemistry.



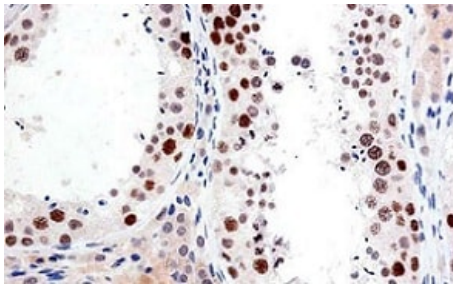
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SUZ12 antibody [SUZ220A] (ab126577)

ab126577, at a 1/30 dilution, staining SUZ12 in paraffin embedded Mouse testicle tissue by Immunohistochemistry.



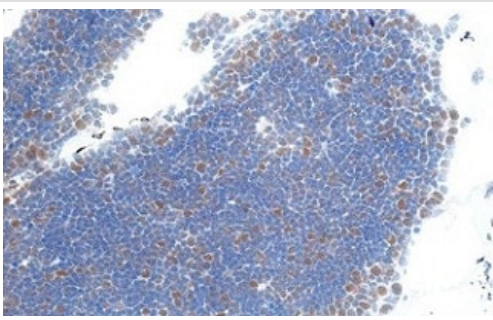
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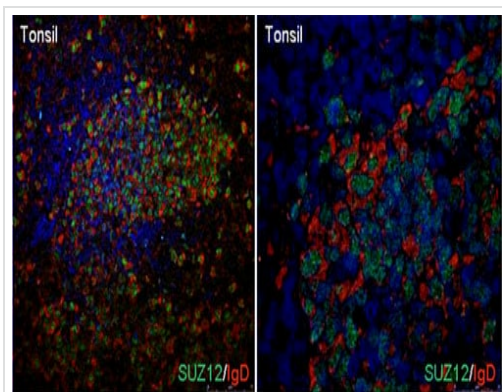
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SUZ12 antibody [SUZ220A] (ab126577)

Purified version of ab126577, at a 1/500 dilution, staining SUZ12 in paraffin embedded Human testicle tissue by Immunohistochemistry.



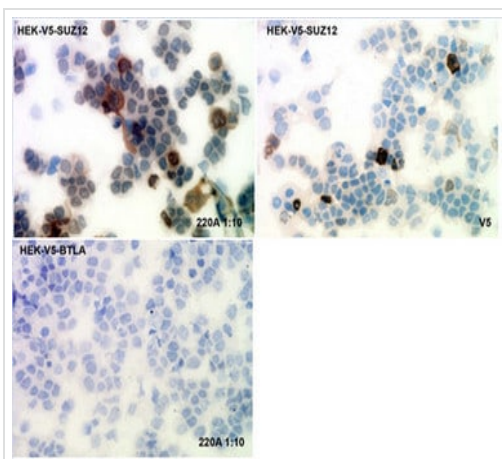
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SUZ12 antibody [SUZ220A] (ab126577)

Purified ab126577 at 1/500 staining SUZ12 in paraffin embedded Human thymus tissue by immunohistochemistry.



Immunocytochemistry/ Immunofluorescence - Anti-SUZ12 antibody [SUZ220A] (ab126577)

Purified version of ab126577, at a 1/100 dilution, staining SUZ12 (green) in Human tonsil by Immunofluorescence. IgD antibody (red) was used at 1/50. After antigen retrieval (Tris-EDTA buffer), the slides were incubated for one hour at room temperature in a humid chamber with primary antibodies. Slides were then washed in PBS 0.5%-Tween20 3 times for 5 minutes each. The slides were incubated for 1 hour with fluorochrome-conjugated antibodies against the different Ig isotypes, diluted in PBS (dilution 1/200) in a humid chamber in the dark. Subsequently, slides were washed in PBS 0.5% Tween20 3 times for 5 minutes each. Following washing, antifading was added.



Immunohistochemistry (Frozen sections) - Anti-SUZ12 antibody [SUZ220A] (ab126577)

To confirm that ab126577 recognized Human SUZ12 protein, Immunohistochemistry on frozen cytopspins preparations of V5-tagged Human SUZ12 expressed in Hek293T was performed. Labeling with the ab126577 confirmed the efficiency of transfection. Cytopsin preparation of V5-tagged Human BTLA protein was used as a negative control.

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