


Anti-WHSC1/NSD2 antibody [29D1] ab75359

★★★★★ [4 Abreviews](#) [33 References](#) [4 图像](#)

概述

产品名称	Anti-WHSC1/NSD2抗体[29D1]
描述	小鼠单克隆抗体[29D1] to WHSC1/NSD2
宿主	Mouse
经测试应用	适用于: WB, IP, IHC-P
种属反应性	与反应: Human 预测可用于: Mouse 
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human normal testis tissue. WB: HeLa and SHSY5Y whole cell lysates. IP: HepG2 cell lysate.
常规说明	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <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	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
纯度	Some batches contain 0.4M arginine. Please contact Scientific Support for further information. Protein G purified

克隆	单克隆
克隆编号	29D1
同种型	IgG2b
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab75359于以下的经测试应用

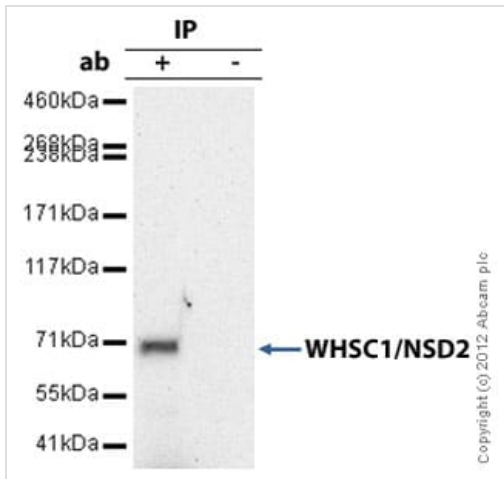
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (3)	Use a concentration of 5 µg/ml. Detects a band of approximately 80 kDa (predicted molecular weight: 152 kDa).
IP		Use at an assay dependent concentration.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能	Probable histone methyltransferase (By similarity). May act as a transcription regulator that binds DNA and suppresses IL5 transcription.
组织特异性	Widely expressed.
疾病相关	Note=A chromosomal aberration involving WHSC1 is a cause of multiple myeloma tumors. Translocation t(4;14)(p16.3;q32.3) with IgH. Note=WHSC1 is located in the Wolf-Hirschhorn syndrome (WHS) critical region. WHS results from by sub-telomeric deletions in the short arm of chromosome 4. WHSC1 is deleted in every case, however deletion of linked genes contributes to both the severity of the core characteristics and the presence of the additional syndromic problems.
序列相似性	Belongs to the histone-lysine methyltransferase family. SET2 subfamily. Contains 1 AWS domain. Contains 1 HMG box DNA-binding domain. Contains 4 PHD-type zinc fingers. Contains 1 post-SET domain. Contains 2 PWWP domains. Contains 1 SET domain.
翻译后修饰	Phosphorylated upon DNA damage, probably by ATM or ATR.
细胞定位	Cytoplasm and Nucleus. Chromosome.

图片



Immunoprecipitation - Anti-WHSC1/NSD2 antibody [29D1] (ab75359)

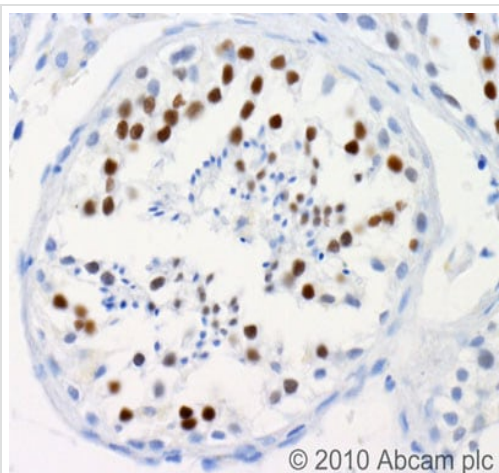
WHSC1/NSD2 was immunoprecipitated using 0.5mg HepG2 whole cell extract, 10µg of Mouse monoclonal to WHSC1/NSD2 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, HepG2 whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab75359.

Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/5000 dilution.

Band: 71kDa: WHSC1/NSD2.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WHSC1/NSD2 antibody [29D1] (ab75359)

ab75359 (1µg/ml) staining WHSC in human testis using an automated system (DAKO Autostainer Plus). Using this protocol there is strong nuclear staining.

Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer citrate pH6.1/ in a DAKO PT link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX.

Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended.

Signal amplification may be required.



Western blot - Anti-WHSC1/NSD2 antibody [29D1] (ab75359)
Image courtesy of an anonymous Abreview.

All lanes : Anti-WHSC1/NSD2 antibody [29D1] (ab75359) at 1/5000 dilution

Lane 1 : Whole cell lysate prepared from HeLa cells

Lane 2 : Whole cell lysate prepared from HCT116 cells

Lysates/proteins at 50 µg per lane.

Secondary

All lanes : HRP conjugated goat anti-mouse polyclonal at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 152 kDa

Exposure time: 3 minutes

Blocked with 5% milk for 1 hour at 23°C.



Western blot - Anti-WHSC1/NSD2 antibody [29D1] (ab75359)

All lanes : Anti-WHSC1/NSD2 antibody [29D1] (ab75359) at 5 µg/ml

All lanes : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/5000 dilution

Performed under reducing conditions.

Predicted band size: 152 kDa

Observed band size: 180,80 kDa

Exposure time: 20 minutes

The full-length MMSET-II protein has an apparent molecular weight of approximately 180 kDa, whereas the 645 amino acid long MMSET-I exhibits a mobility of approximately 80 kDa.

Abcam recommends blocking with 1% milk.

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