

### Anti-EED antibody [EPR23043-5] - ChIP Grade ab240650






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#### 概述

产品名称	Anti-EED抗体[EPR23043-5] - ChIP Grade
描述	兔单克隆抗体[EPR23043-5] to EED - ChIP Grade
宿主	Rabbit
特异性	ab240650 detects an unknown band close to the target bands in cytoplasm.
经测试应用	<b>适用于:</b> ChIP, ChIP-sequencing, WB, IP <b>不适用于:</b> Flow Cyt, ICC/IF or IHC-P
种属反应性	<b>与反应:</b> Mouse, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Wild type HAP1, K562, 293T, NIH/3T3 and C2C12 lysates. IP: K562 cells. ChIP: Chromatin prepared from NT2/D1 cells.
常规说明	<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>

#### 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 long term. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR23043-5

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab240650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
ChIP	★★★★☆ (3)	Use 5 µg for 25 µg of chromatin.
ChIP-sequencing		Use a concentration of 0.1 µl/chromatin. Use at 0.1 uL/ug chromatin.
WB	★★★★★ (2)	1/1000. Predicted molecular weight: 50 kDa.
IP		1/30.

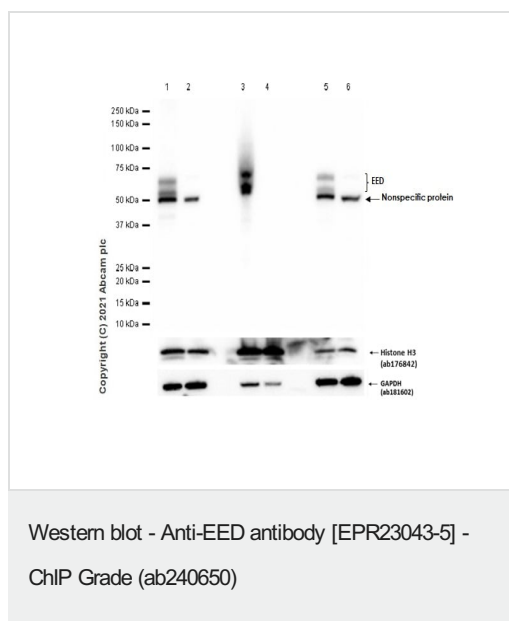
应用说明

Is unsuitable for Flow Cyt,ICC/IF or IHC-P.

靶标

功能	Polycomb group (PcG) protein. Component of the PRC2/EED-EZH2 complex, which methylates 'Lys-9' and 'Lys-27' 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	Expressed in brain, colon, heart, kidney, liver, lung, muscle, ovary, peripheral blood leukocytes, pancreas, placenta, prostate, spleen, small intestine, testis, thymus and uterus. Appears to be overexpressed in breast and colon cancer.
序列相似性	Belongs to the WD repeat ESC family. Contains 7 WD repeats.
发展阶段	Expression peaks at the G1/S phase boundary.
细胞定位	Nucleus. Chromosome. Transiently colocalizes with XIST at inactive X chromosomes.

图片



**All lanes :** Anti-EED antibody [EPR23043-5] - ChIP Grade (ab240650) at 1/1000 dilution

**Lane 1 :** Wild type HAP1 whole cell lysate

**Lane 2 :** EED knockout HAP1 whole cell lysate

**Lane 3 :** Wild type HAP1 nuclear fraction lysate

**Lane 4 :** EED knockout HAP1 nuclear fraction lysate

**Lane 5 :** Wild type HAP1 cytoplasmic lysate

**Lane 6 :** EED knockout HAP1 cytoplasmic lysate

Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

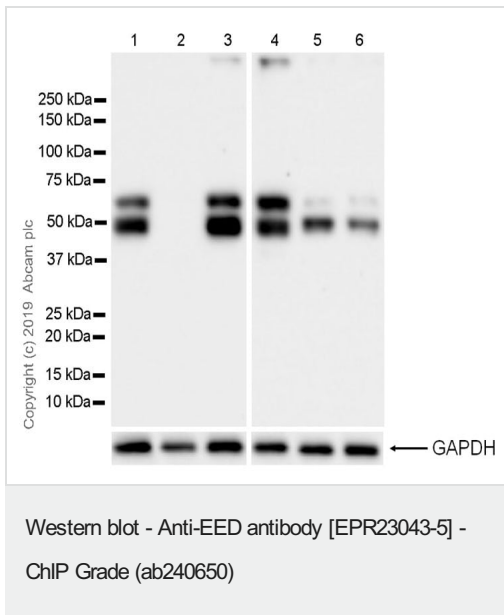
**Predicted band size:** 50 kDa

**Observed band size:** 50-70 kDa

**Exposure time:** 3 seconds

Blocking and dilution buffer and concentration: 5% NFDM/TBST

ab240650 detects an unknown band close to the target bands in cytoplasm.



**All lanes :** Anti-EED antibody [EPR23043-5] - ChIP Grade (ab240650) at 1/1000 dilution

**Lane 1 :** Wild type HAP1 whole cell lysate

**Lane 2 :** EED knockout HAP1 whole cell lysate

**Lane 3 :** K562 (human chronic myelogenous leukemia lymphoblast), whole cell lysate

**Lane 4 :** 293T (human embryonic kidney epithelial cell), whole cell lysate

**Lane 5 :** NIH/3T3 (mouse embryonic fibroblast), whole cell lysate

**Lane 6 :** C2C12 (mouse myoblasts myoblast), whole cell lysate

Lysates/proteins at 20 µg per lane.

## Secondary

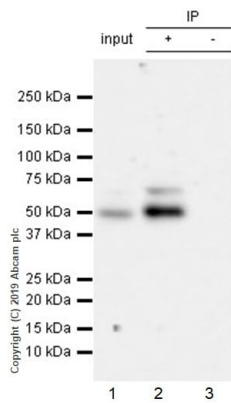
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 50 kDa

**Observed band size:** 50-70 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST  
 ab240650 was shown to specifically react with EED in wild-type HAP1 cells as signal was lost in EED knockout cells. Wild-type and EED knockout samples were subjected to SDS-PAGE. ab240650 and [ab181602](#) (Rabbit anti-GAPDH loading control) were incubated 1 hour at room temperature at 1/1000 dilution and 1/200,000 dilution respectively. Blots were developed with Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) secondary antibody at 1/100,000 dilution for 1 hour at room temperature before imaging. The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID:27578866, 9584199). EED cDNA encodes 441-aa-long protein and 535-aa-long protein.

Exposure time: Lanes 1-3: 15 seconds Lanes 4-6: 37 seconds



Immunoprecipitation - Anti-EED antibody  
[EPR23043-5] - ChIP Grade (ab240650)

EED was immunoprecipitated from 0.35 mg K562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate with ab240650 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab240650 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/5000 dilution.

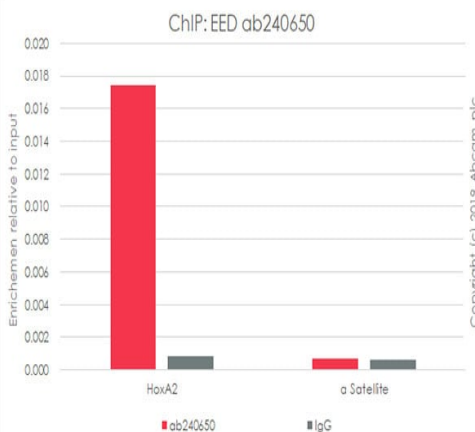
Lane 1: K562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate 10 µg

Lane 2: ab240650 IP in K562 whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab240650 in K562 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 min



ChIP - Anti-EED antibody [EPR23043-5] - ChIP  
Grade (ab240650)

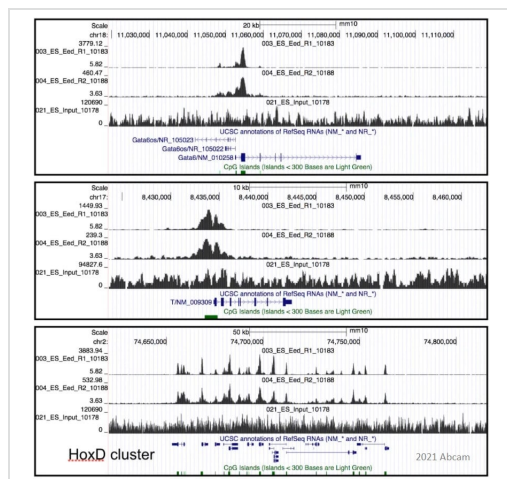
Chromatin was prepared from NT2/D1 cells according to the Abcam Dual-X-ChIP protocol\*. Cells were fixed with 1.5 mM EGS for 30mins and then formaldehyde for 10min.

The ChIP was performed with 25 µg of chromatin, 5 µg of ab240650 (red), or 5 µg of rabbit normal IgG [ab172730](#) (gray) and 20 µl of Protein A/G sepharose beads. The immunoprecipitated DNA was quantified by real time PCR (Taqman approach for active and inactive loci, Sybr green approach for heterochromatic loci).

Primers and probes are commercial primers from Millipore (Cat. No.: 17-10034) and CST (85322S)

\*[https://www.abcam.com/resources?](https://www.abcam.com/resources?keywords=X%20ChIP%20protocol)

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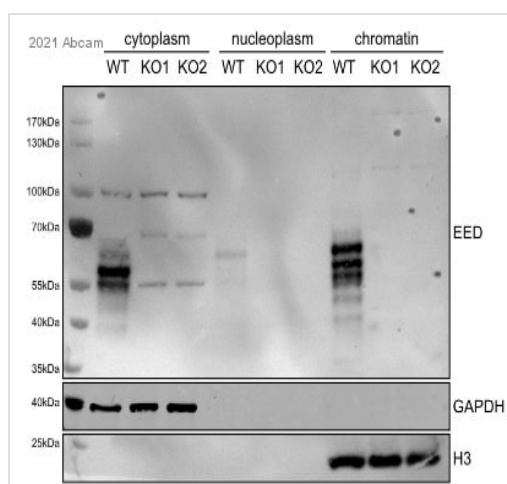


ChIP-sequencing - Anti-EED antibody [EPR23043-5]

- ChIP Grade (ab240650)

This image is courtesy of an Abreview submitted by Ivano Mccavini.

ChIP sequencing analysis of chromatin from Mouse Embryonic Stem Cells with ab240650 at 0.1  $\mu\text{L}/\mu\text{g}$  chromatin. Cross linking was performed for 10 minutes with 1% PFA. Primary incubation was for 16 hours at 4°C in a dilution buffer containing 20mM Tris at pH8, 1.1mM EDTA, 1.1% triton, and 167mM NaCl.



Western blot - Anti-EED antibody [EPR23043-5] -

ChIP Grade (ab240650)

This image is courtesy of an Abreview submitted by Ivano Mccavini.

**All lanes :** Anti-EED antibody [EPR23043-5] - ChIP Grade (ab240650) at 1/1000 dilution

**Lane 1 :** Wild type Mouse Embryonic Stem Cell (mESC) cytoplasmic extract

**Lane 2 :** EED knockout (KO1) mESC cytoplasmic extract

**Lane 3 :** EED knockout (KO2) mESC cytoplasmic extract

**Lane 4 :** Wild type mESC nucleoplasm extract

**Lane 5 :** EED knockout (KO1) mESC nucleoplasm extract

**Lane 6 :** EED knockout (KO2) mESC nucleoplasm extract

**Lane 7 :** Wild type mESC chromatin extract

**Lane 8 :** EED knockout (KO1) mESC chromatin extract

**Lane 9 :** EED knockout (KO2) mESC chromatin extract

## Secondary

**All lanes :** Goat anti-rabbit antibody conjugated to HRP at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 50 kDa

**Observed band size:** 40,47,55,60,65 kDa

**Exposure time:** 30 seconds

**Additional bands at:** 100 kDa, 70 kDa and 55 kDa in the cytoplasmic fraction (all possible non-specific binding)

This blot was produced using a 4-12% Bis-tris gel under reducing denaturing conditions. Following transfer, the membrane was blocked for 30 minutes at room temperature using 5% Milk before being incubated with ab240650 for 16 hours at 4°C.

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

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