Product datasheet

Anti-EED antibody ab4469

○○○○ 3 Abreviews  22 References  3 Images

Overview

Product name | Anti-EED antibody
Description | Rabbit polyclonal to EED
Host species | Rabbit
Specificity | ab4469 specifically recognises the four isoforms of EED following the immunoprecipitation of tagged Ezh2 from HEK293 nuclear extract. However, using HEK293 nuclear lysate ab4469 predominantly recognises non-specific bands.

Tested applications | Suitable for: WB, ICC/IF
Species reactivity | Reacts with: Cow, Human
Predicted to work with: Mouse, Chicken, Xenopus laevis

Immunogen | Synthetic peptide corresponding to Human EED aa 1-100 conjugated to keyhole limpet haemocyanin.
(Peptide available as ab13743)

Positive control | This antibody gave a positive signal in Human Recombinant EED Protein

Properties

Form | Liquid
Storage instructions | 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.
Storage buffer | Preservative: 0.02% Sodium Azide
Constituents: 1% BSA, PBS, pH 7.4
Purity | Immunogen affinity purified
Clonality | Polyclonal
Isotype | IgG

Applications

Our Abpromise guarantee covers the use of ab4469 in the following tested applications.
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.

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.

Belongs to the WD repeat ESC family. Contains 7 WD repeats.

Expression peaks at the G1/S phase boundary.

Nucleus. Chromosome. Transiently colocalizes with XIST at inactive X chromosomes.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>1/100.</td>
<td></td>
</tr>
</tbody>
</table>

**Images**

**Lane 1:** Wild-type HAP1 cell lysate (20 µg)
**Lane 2:** EED knockout HAP1 cell lysate (20 µg)
**Lane 3:** HeLa cell lysate (20 µg)
**Lane 4:** HepG2 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab4469 observed at 55 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab4469 was shown to recognize EED in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed when EED knockout samples were examined. Wild-type and EED knockout samples were subjected to SDS-PAGE. ab4469 and ab8245 (loading control to GAPDH) were diluted 1/250 and 1/1000 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 hour at room temperature before imaging.
Rabbit polyclonal to EED (ab4469) on U20S cells. Antibody used at 1/100.

U20S cells were fixed with PFA (3.7%), permeabilised with PBS 0.1% Triton. Counterstained with Hoechst. Cells were examined with Axioplan 2 microscope (Zeiss).

Secondary antibody: donkey anti-rabbit (Cy3).

Anti-EED antibody (ab4469) at 1/250 dilution + EED Recombinant Protein (Human) at 0.1 µg

Secondary
Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 49 kDa
Observed band size: 80 kDa

why is the actual band size different from the predicted?

ab4469 recognizes the full-length recombinant EED protein which has an expected molecular weight of 80 kDa (tagged).

Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors