

Product datasheet

Anti-EED antibody ab4469

KO VALIDATED

★★★★★ 3 Abreviews 21 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 conjugated to KLH derived from within residues 1 - 100 of Human EED. Read Abcam's proprietary immunogen policy (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.

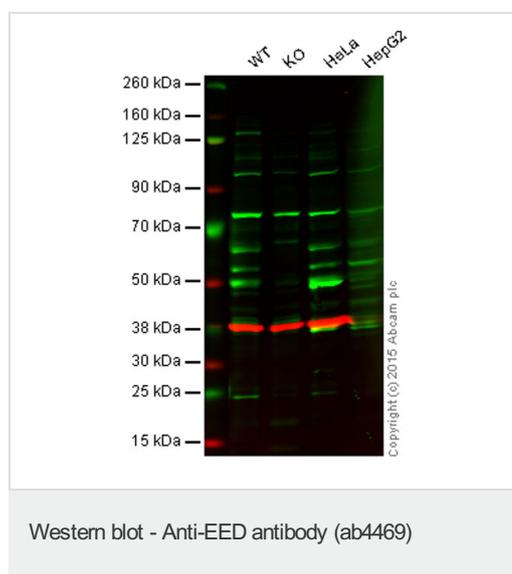
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★	1/200. Predicted molecular weight: 49 kDa.
ICC/IF		1/100.

Target

Function	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.
Tissue specificity	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.
Sequence similarities	Belongs to the WD repeat ESC family. Contains 7 WD repeats.
Developmental stage	Expression peaks at the G1/S phase boundary.
Cellular localization	Nucleus. Chromosome. Transiently colocalizes with XIST at inactive X chromosomes.

Images



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

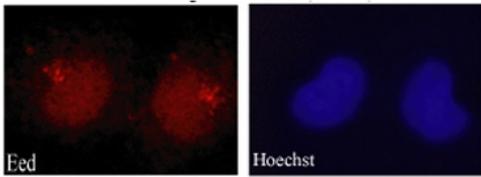
Lane 2: EED knockout HAP1 cell lysate (20 µg)

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.

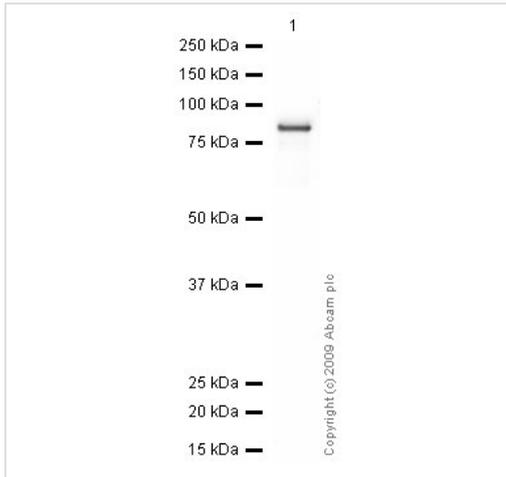


Immunocytochemistry/ Immunofluorescence - Anti-EED antibody (ab4469)

Rabbit polyclonal to EED (ab4469) on U2OS cells. Antibody used at 1/100.

U2OS 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).



Western blot - Anti-EED antibody (ab4469)

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).

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