

Product datasheet

Anti-EZH1 antibody - N-terminal ab137693

★ ★ ★ ★ ★ [2 Abreviews](#) [2 References](#) [3 Images](#)

Overview

Product name	Anti-EZH1 antibody - N-terminal
Description	Rabbit polyclonal to EZH1 - N-terminal
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to a region within N terminal amino acids 1-44 of Human EZH1 (Uniprot Q92800)
Positive control	293T, A431, H1299, HeLaS3, HepG2, Molt-4 and Raji cells; HeLa cells; H1299 xenograft.
General notes	<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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	<p>pH: 7.00</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab137693 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	★☆☆☆☆ (2)	1/500 - 1/3000. Predicted molecular weight: 85 kDa.
ICC/IF		1/100 - 1/1000.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Or Tris-EDTA buffer pH8.0

Target

Function

Polycomb group (PcG) protein. Catalytic subunit of the PRC2/EED-EZH1 complex, which methylates 'Lys-27' of histone H3, leading to transcriptional repression of the affected target gene. Able to mono-, di- and trimethylate 'Lys-27' of histone H3 to form H3K27me1, H3K27me2 and H3K27me3, respectively. Required for embryonic stem cell derivation and self-renewal, suggesting that it is involved in safeguarding embryonic stem cell identity. Compared to EZH1-containing complexes, it is less abundant in embryonic stem cells, has weak methyltransferase activity and plays a less critical role in forming H3K27me3, which is required for embryonic stem cell identity and proper differentiation.

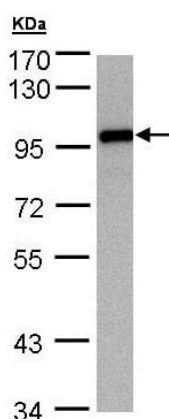
Sequence similarities

Belongs to the histone-lysine methyltransferase family. EZ subfamily.
Contains 1 SET domain.

Cellular localization

Nucleus. Colocalizes with trimethylated 'Lys-27' of histone H3.

Images



Anti-EZH1 antibody - N-terminal (ab137693) at 1/1000 dilution + whole cell lysate prepared from HepG2 cells at 30 µg

Predicted band size: 85 kDa

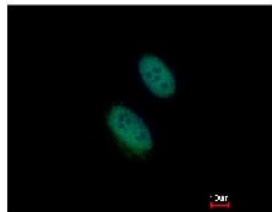
7.5% SDS PAGE.

Secondary antibody - **anti-rabbit HRP (ab6721)**

Western blot - Anti-EZH1 antibody - N-terminal (ab137693)

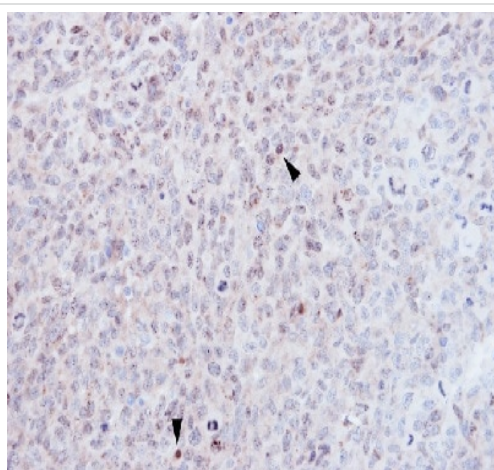


Costained with Hoechst 33342



Immunocytochemistry/ Immunofluorescence - Anti-EZH1 antibody - N-terminal (ab137693)

Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using ab137693 at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EZH1 antibody - N-terminal (ab137693)

Immunohistochemical analysis of paraffin-embedded H1299 xenograft, using ab137693 at 1/500 dilution.

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