

Datasheet for ABIN3030807
anti-EZH2 antibody (AA 260-295)



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2 Images

Overview

Quantity:	0.4 mL
Target:	EZH2
Binding Specificity:	AA 260-295
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EZH2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This EZH2 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 260-295 amino acids of mouse Ezh2.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified

Target Details

Target:	EZH2
Alternative Name:	EZH2 (EZH2 Products)
Background:	Polycomb group (PcG) protein. Catalytic subunit of the PRC2/EED-EZH2 complex, which methylates (H3K9me) and 'Lys-27' (H3K27me) of histone H3, leading to transcriptional repression of the affected target gene. Able to mono-, di- and trimethylate 'Lys-27' of histone H3

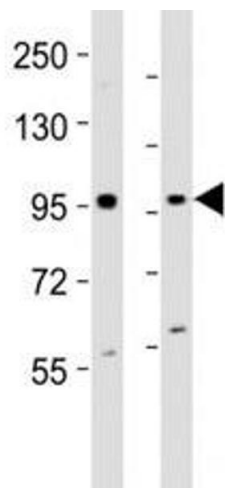
Target Details

to form H3K27me1, H3K27me2 and H3K27me3, respectively. Compared to EZH2-containing complexes, it is more abundant in embryonic stem cells and plays a major role in forming H3K27me3, which is required for embryonic stem cell identity and proper differentiation. 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 HOXA7, HOXB6 and HOXC8. EZH2 can also methylate non-histone proteins such as the transcription factor GATA4 and the nuclear receptor RORA. Regulates the circadian clock via histone methylation at the promoter of the circadian genes. Essential for the CRY1/2-mediated repression of the transcriptional activation of PER1/2 by the CLOCK-ARNTL/BMAL1 heterodimer, involved in the di and trimethylation of 'Lys-27' of histone H3 on PER1/2 promoters which is necessary for the CRY1/2 proteins to inhibit transcription.

UniProt:	Q61188
Pathways:	Retinoic Acid Receptor Signaling Pathway , Regulation of Muscle Cell Differentiation

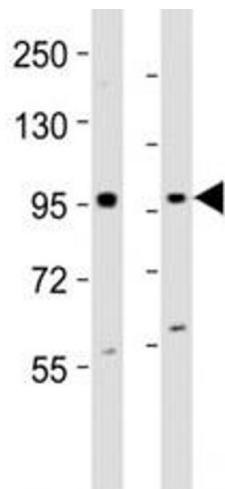
Application Details

Application Notes:	Titration of the EZH2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:2000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	In 1X PBS pH 7.4 with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the EZH2 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



Western Blotting

Image 1. Western blot testing of EZH2 antibody at 1:2000 dilution. Lane 1: mouse F9 lysate; 2: human K562 lysate; Predicted band size : 95 kDa.



Western Blotting

Image 2. Western blot testing of EZH2 antibody at 1:2000 dilution. Lane 1: mouse F9 lysate