

Product datasheet

Anti-KMT6 / EZH2 antibody [EPR1409(2)] ab110646

RabMAb

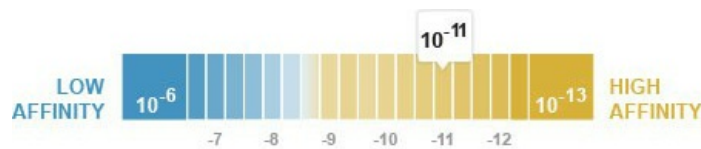
3 References 2 Images

Overview

Product name	Anti-KMT6 / EZH2 antibody [EPR1409(2)]
Description	Rabbit monoclonal [EPR1409(2)] to KMT6 / EZH2
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC, IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	A synthetic peptide corresponding to residues in Human KMT6/ EZH2.
Positive control	HeLa, MCF7 and K562 cell lysates
General notes	This product is a recombinant rabbit monoclonal antibody. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information. Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 7.52 x 10 ⁻¹¹ M



[Learn more about K_D](#)

Storage buffer	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR1409(2)
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab110646** 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
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WB		1/1000 - 1/10000. Detects a band of approximately 100 kDa (predicted molecular weight: 85 kDa).
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Application notes		Is unsuitable for Flow Cyt, ICC, IHC-P or IP.
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Target

Function	Polycomb group (PcG) protein. Catalytic subunit 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. Able to mono-, di- and trimethylate 'Lys-27' of histone H3 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 HOXC8, HOXA9, MYT1, CDKN2A and retinoic acid target genes.
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Tissue specificity	Expressed in many tissues. Overexpressed in numerous tumor types including carcinomas of the breast, colon, larynx, lymphoma and testis.
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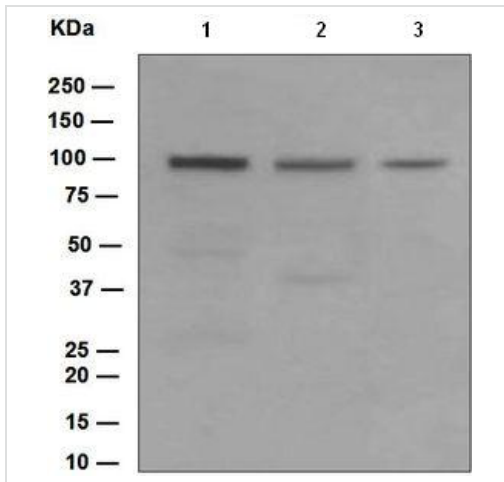
Sequence similarities	Belongs to the histone-lysine methyltransferase family. EZ subfamily. Contains 1 SET domain.
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Developmental stage	Expression decreases during senescence of embryonic fibroblasts (HEFs). Expression peaks at the G1/S phase boundary.
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Post-translational modifications	Phosphorylated by AKT1. Phosphorylation by AKT1 reduces methyltransferase activity.
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Cellular localization	Nucleus.
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Images



Western blot - Anti-KMT6 / EZH2 antibody
[EPR1409(2)] (ab110646)

All lanes : Anti-KMT6 / EZH2 antibody
[EPR1409(2)] (ab110646) at 1/1000 dilution

Lane 1 : HeLa cell lysates

Lane 2 : MCF7 cell lysates

Lane 3 : K562 cell lysates

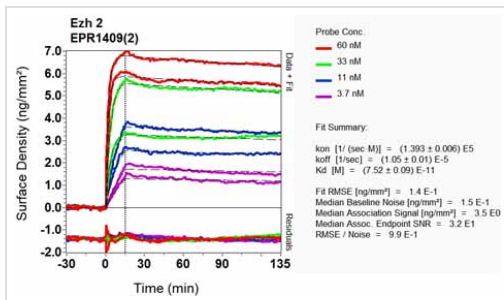
Lysates/proteins at 10 µg per lane.

Secondary

HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size : 85 kDa

Observed band size : 100 kDa



Other - Anti-KMT6 / EZH2 antibody [EPR1409(2)]
(ab110646)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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