

Datasheet for 200-301-W46**EZH2 Antibody****Overview**

Description:	Anti-EZH2 (MOUSE) Monoclonal Antibody - 200-301-W46
Item No.:	200-301-W46
Size:	50 µg
Applications:	ChIP
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	EZH2 is a histone-lysine methyltransferase which methylates 'Lys-9' and 'Lys-27' of histone H3, leading to transcriptional repression. It is a member of the polycomb group (PcG) family which form multimeric protein complexes and are involved in maintaining the transcriptional repressive state of genes over successive cell generations. The EZH2 activity is dependent on the association with other components of the PRC2 complex (EED, SUZ12/JJAZ1, RBBP4 and RBBP7). EZH2 may play a role in the hematopoietic and internal nervous systems. Over-expression of EZH2 is observed during advanced stages of prostate cancer and breast cancer. Anti-EZH2 Antibody is ideal for research in Epigenetics, Gene Expression, Neuroscience and Cancer.
Synonyms:	Histone-lysine N-methyltransferase EZH2, ENX-1, Enhancer of zeste homolog 2, Lysine N-methyltransferase 6, KMT6
Host Species:	Mouse
Clonality:	Monoclonal
Format:	IgG1

Target Details

Gene Name:	EZH2
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-EZH2 Antibody was produced in mice by repeated immunizations containing an amino acid sequence from the internal region of the human EZH2 protein.

Purity/Specificity:	Anti-EZH2 Antibody was purified by Protein G chromatography. Cross-reactivity with EZH2 from other species has not been determined.
Relevant Links:	• UniProtKB - Q15910 • GeneID - 2146 • NCBI - NP_001190176.1

Application Details

Tested Applications:	ChIP
Application Note:	Anti-EZH2 Antibody is tested for Chromatin Immunoprecipitation. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ChIP:	2.5 µg per IP

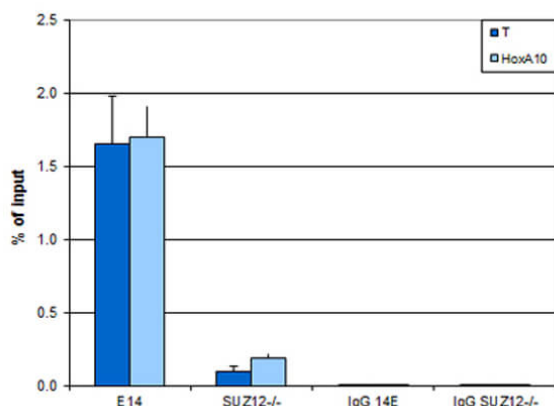
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



ChIP

Chromatin Immunoprecipitation performed with mouse monoclonal Anti-EZH2 antibody. ChIP assays were performed using 2.5 µg of antibody against EZH2 on sheared chromatin from 5 million E14 mouse embryonic stem and from SUZ12^{-/-} cells, used as a negative control. IgG was used as negative IP control. Quantitative PCR was performed with primers specific for the HoxA10 gene and for the T gene which encodes the Brachyury transcription factor. This figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).

Disclaimer

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