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Datasheet for 200-401-W53

EzH2 Antibody

Overview

Description:	Anti-EZH2 (RABBIT) Antibody - 200-401-W53
Item No.:	200-401-W53
Size:	50 µg
Applications:	ChIP, IF, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

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, EZH2, 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, Cell Biology and Cancer.
Synonyms:	Histone-lysine N-methyltransferase EZH2, ENX-1, Enhancer of zeste homolog 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	EZH2
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-EZH2 Antibody was produced in rabbits by repeated immunizations containing an amino acid sequence from the N-terminus of mouse EZH2.

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

Application Details

Tested Applications:	ChIP, IF, WB
Application Note:	Anti-EZH2 Antibody is tested for Chromatin Immunoprecipitation, Immunofluorescence, and Western Blots. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 85 kDa in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ChIP:	2.5 µg per IP
IHC:	1:100 - 1:500
WB:	1:1,000

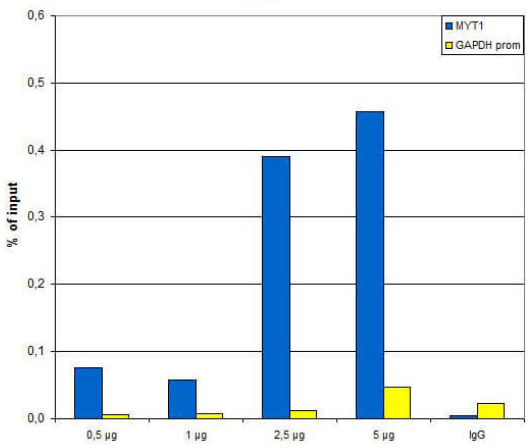
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 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 and 0.05% ProClin 300
Stabilizer:	None

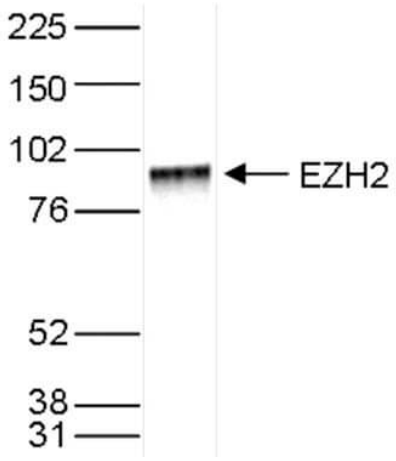
Shipping & Handling

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 results of Rabbit Anti-EZH2 Antibody. ChIP assays were performed using HeLa cells, the Anti-EZH2 Antibody, and optimized PCR primer sets for qPCR. ChIP was performed using sheared chromatin from 1 million cells. A titration of the antibody consisting of 0.5, 1, 2.5 and 5 µg per ChIP experiment was analyzed. IgG (2 µg/IP) was used as negative IP control. Quantitative PCR was performed with primers for MYT1, used as a positive control target, and for the promoter of the active GAPDH gene, used as a negative control. This figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



Western Blot
Western Blot results of Rabbit anti-EZH2 antibody. Lane 1: HeLa nuclear extracts cells. Load: 40 µg per lane. Primary antibody: EZH2 antibody at 1:1000 for overnight at 4°C. Secondary antibody: anti-rabbit HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO/TBS-Tween overnight at 4°C. Expected size 85 kDa.

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