

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/JAZ1, 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:	<ul style="list-style-type: none">• 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

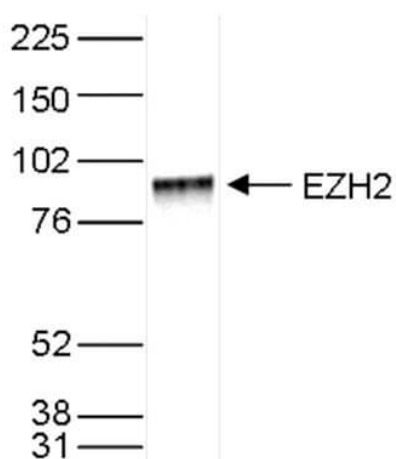
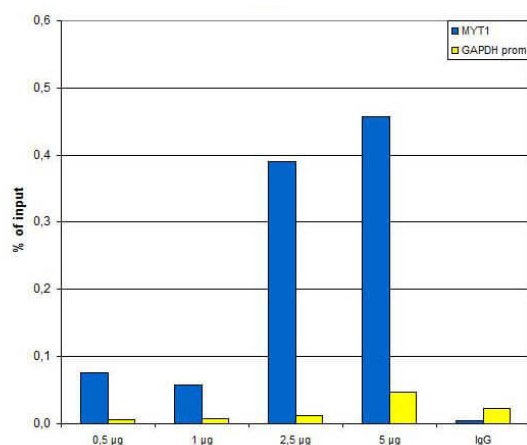
Formulation

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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.