Datasheet for ABIN6244310

anti-EZH2 antibody (AA 410-440)

4 Images | 4 Publications

Go to Product page

Overview

Quantity:	400 µL
Target:	EZH2
Binding Specificity:	AA 410-440
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EZH2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This EZH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from 410-440aa of human EZH2.
Clone:	RB2921
Isotype:	IgG
Predicted Reactivity:	X, Pr
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	EZH2
Alternative Name:	EZH2 (EZH2 Products)

Target Details

Background:	EZH2, SUZ12, and EED form a complex that methylates nucleosomal histone H3 at Lys27. EZH2 contains a SET domain, a signature motif for all known histone lysine methyltransferases except the H3-K79 methyltransferase DOT1, and is therefore likely to be the catalytic subunit. Consequently, EZH2 is thought to regulate gene expression by controlling chromatin structure. Several lines of evidence suggested a critical role for the EZH2 protein during normal and perturbed development of the hematopoietic and central nervous systems. The EZH2 protein has been shown to associate with the VAV1 protooncoprotein and with the XNP protein, the product of a gene associated with mental retardation. Additionally, due to mapping of EZH2 to the 7q35-q36 chromosomal region associated with myeloid disorders, this protein is suggested to participate in the genetic events triggering myeloid leukemia.
Molecular Weight:	85363
NCBI Accession:	NP_001190176, NP_001190177, NP_001190178, NP_004447, NP_694543
UniProt:	Q15910
Pathways:	Retinoic Acid Receptor Signaling Pathway, Regulation of Muscle Cell Differentiation

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in:	Pan, Wang, Zhu, Xing, Cui, Li, Yu, Wang, Zhu, Ye, Wu, Wang, Lu: "STAT3 signaling drives EZH2 transcriptional activation and mediates poor prognosis in gastric cancer." in: **Molecular cancer**,

Publications

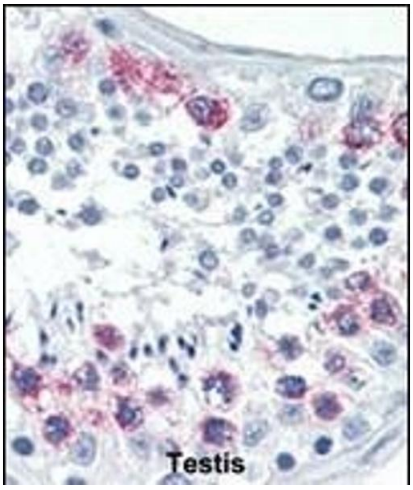
Vol. 15, Issue 1, pp. 79, (2017) (PubMed).

Lin, Zheng, Tu, Wang, Liu, Lu, Xu, Yuan: "MicroRNA-144 suppresses tumorigenesis and tumor progression of astrocytoma by targeting EZH2." in: **Human pathology**, Vol. 46, Issue 7, pp. 971-80, (2015) (PubMed).

Eskander, Ji, Huynh, Wardeh, Randall, Hoang: "Inhibition of enhancer of zeste homolog 2 (EZH2) expression is associated with decreased tumor cell proliferation, migration, and invasion in endometrial cancer cell lines." in: **International journal of gynecological cancer : official journal of the International Gynecological Cancer Society**, Vol. 23, Issue 6, pp. 997-1005, (2014) (PubMed).

Zhou, Flesken-Nikitin, Corney, Wang, Goodrich, Roy-Burman, Nikitin: "Synergy of p53 and Rb deficiency in a conditional mouse model for metastatic prostate cancer." in: **Cancer research**, Vol. 66, Issue 16, pp. 7889-98, (2007) (PubMed).

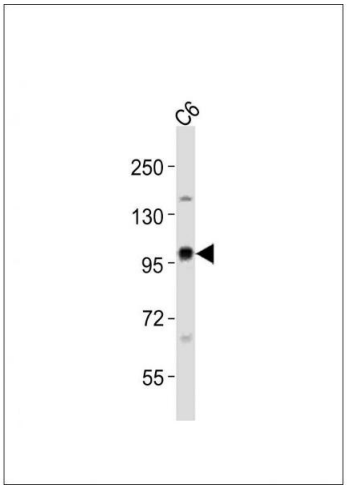
Images



Immunohistochemistry (Paraffin-embedded Sections)

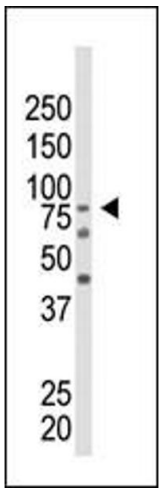
Image 1. Formalin-fixed and paraffin-embedded human Testis tissue reacted with EZH2 Antibody (Center) (ABIN6244310 and ABIN6578917) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.

Images



Western Blotting

Image 2. Anti-EZH2 Antibody at 1:1000 dilution + C6 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 85 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 3. The anti-EZH2 Ctr Pab (ABIN6244310 and ABIN6578917) is used in Western blot to detect EZH2 in mouse kidney tissue lysate.

Please check the product details page for more images. Overall 4 images are available for ABIN6244310.