

For Research Use Only

# EZH2 Monoclonal antibody

Catalog Number: 66476-1-Ig

Featured Product

6 Publications



## Basic Information

<b>Catalog Number:</b> 66476-1-Ig	<b>GenBank Accession Number:</b> BC010858	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop and 545 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2146	<b>CloneNo.:</b> 1F10A12
<b>Source:</b> Mouse	<b>Full Name:</b> enhancer of zeste homolog 2 (Drosophila)	<b>Recommended Dilutions:</b> WB 1:5000-1:20000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 751 aa, 86 kDa	
<b>Immunogen Catalog Number:</b> AG16789	<b>Observed MW:</b> 90-102 kDa	

## Applications

### Tested Applications:

FC, WB, ELISA

### Cited Applications:

IF, IHC, IP, WB

### Species Specificity:

Human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : HEK-293 cells, A549 cells, Jurkat cells, ROS1728 cells, NIH/3T3 cells, 4T1 cells, A431 cells, PC-3 cells, DU145 cells

## Background Information

EZH2 (enhancer of zeste homologue 2, also known as KMT6) is a member of Polycomb group (PcG) family and encodes a histone methyl transferase that has an essential role in promoting histone H3 lysine 27 trimethylation (H3K27me3) and epigenetic gene silencing. EZH2 is important for cell proliferation and inhibition of cell differentiation, and is implicated in cancer progression. Overexpression of EZH2 is a marker of advanced and metastatic disease in many solid tumors, including prostate and breast cancer. This antibody detected EZH2 protein as a single band with a molecular weight (MW) of 91-100 kDa in multiple cell lines. The phosphorylation may result in the higher molecular weight (calculated MW as 80-86 kDa). (20935635, 21367748)

## Notable Publications

Author	Pubmed ID	Journal	Application
Yan Lu	33163491	Front Cell Dev Biol	WB,IHC
Nicholas Marano	36274837	Front Cell Dev Biol	WB
Longyang Jin	30282996	Cell Death Dis	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

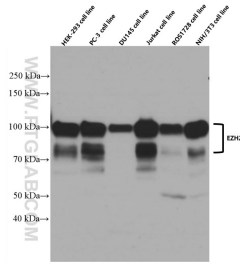
For technical support and original validation data for this product please contact:

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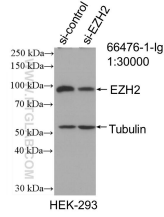
E: proteintech@ptglab.com  
W: ptglab.com

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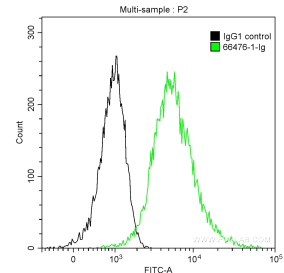
## Selected Validation Data



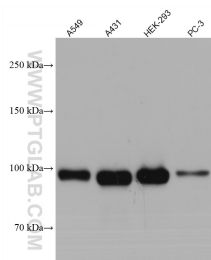
Various cell lines were subjected to SDS PAGE followed by western blot with 66476-1-Ig (EZH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of EZH2 antibody (66476-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EZH2 transfected HEK-293 cells.



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.2 ug Anti-Human EZH2 (66476-1-Ig, Clone:1F10A12) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.



Various lysates were subjected to SDS PAGE followed by western blot with 66476-1-Ig (EZH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.