

For Research Use Only

# EZH2 Polyclonal antibody

Catalog Number: 21800-1-AP

Featured Product

113 Publications



## Basic Information

### Catalog Number:

21800-1-AP

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG16789

### GenBank Accession Number:

BC010858

### GeneID (NCBI):

2146

### UNIPROT ID:

Q15910

### Full Name:

enhancer of zeste homolog 2  
(Drosophila)

### Calculated MW:

751 aa, 86 kDa

### Observed MW:

90-102 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:5000-1:50000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total  
protein lysate

IHC: 1:1000-1:4000

IF/ICC: 1:400-1:1600

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a  
100 µl suspension

## Applications

### Tested Applications:

WB, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IF, IP, CoIP, CHIP, RIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, sheep

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

### Positive Controls:

WB: DU 145 cells, HEK-293 cells, mouse kidney tissue,  
NIH/3T3 cells, Raji cells, Jurkat cells, A431 cells,  
HepG2 cells, rat kidney tissue, C6 cells

IP: HepG2 cells,

IHC: human lung squamous cell carcinoma tissue,

IF/ICC: HepG2 cells,

FC (Intra): HepG2 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
Min Li	28970250	FASEB J	WB
Yan Sun	34564701	Cell Death Dis	WB
Qun Liu	36151333	Cancer Gene Ther	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

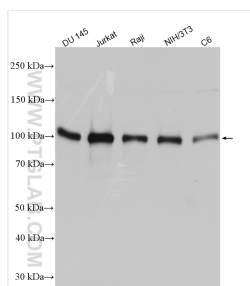
T: 4006900926

E: Proteintech-CN@ptglab.com

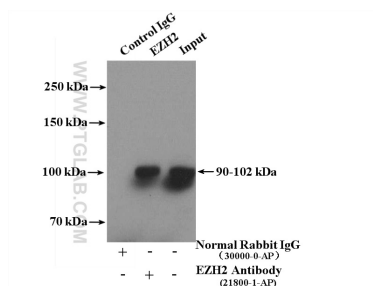
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

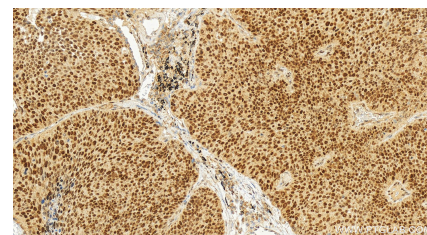
## Selected Validation Data



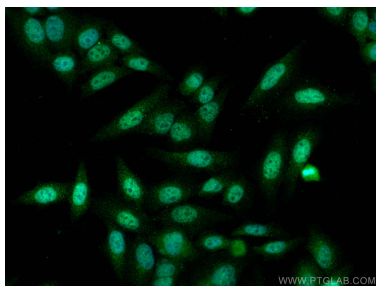
Various lysates were subjected to SDS PAGE followed by western blot with 21800-1-AP (EZH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



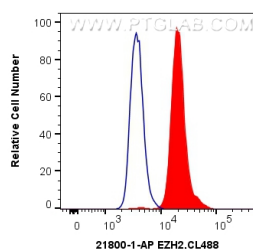
IP result of anti-EZH2 (IP:21800-1-AP, 4ug; Detection:21800-1-AP 1:1000) with HepG2 cells lysate 3400ug.



Immunohistochemical analysis of paraffin-embedded human lung squamous cell carcinoma tissue slide using 21800-1-AP (EZH2 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using EZH2 antibody (21800-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug Anti-Human EZH2 (21800-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).