

For Research Use Only

# SUZ12 Recombinant antibody

Catalog Number: 84895-3-RR



## Basic Information

<b>Catalog Number:</b> 84895-3-RR	<b>GenBank Accession Number:</b> NM_015355	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23512	<b>CloneNo.:</b> 242491B3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q15022	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IF/ICC 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> suppressor of zeste 12 homolog (Drosophila)	
	<b>Calculated MW:</b> 83 kDa	
	<b>Observed MW:</b> 80-90 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HeLa cells, HEK-293 cells, COLO 320 cells, MCF-7 cells <b>IF/ICC :</b> HeLa cells, MCF-7 cells

## Background Information

SUZ12, also termed CHET9, JAZ1 or KIAA0160, belongs to the VEF5 (VRN2-EMF2-FIS2-SU(Z)12) family. It is a polycomb group (PcG) protein. SUZ12 is a component of the PRC2/EED-EZH2 complex, which methylates 'Lys-9' and 'Lys-27' of histone H3, leading to transcriptional repression of the affected target gene. The PRC2/EED-EZH2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems. Genes repressed by the PRC2/EED-EZH2 complex include HOXC8, HOXA9, MYT1 and CDKN2A. A chromosomal aberration involving SUZ12 may be a cause of endometrial stromal tumors.

## Storage

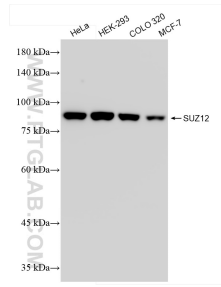
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

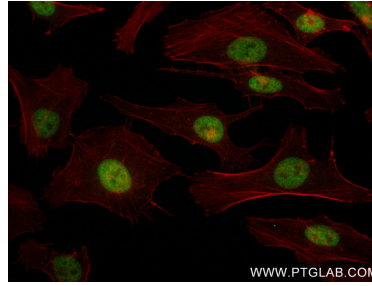
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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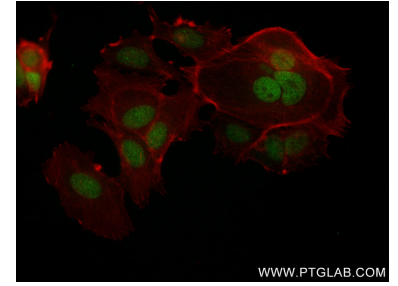
## Selected Validation Data



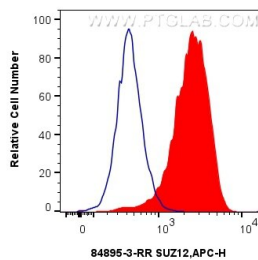
Various lysates were subjected to SDS PAGE followed by western blot with 84895-3-RR (SUZ12 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SUZ12 antibody (84895-3-RR, Clone: 242491B3 ) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SUZ12 antibody (84895-3-RR, Clone: 242491B3 ) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug SUZ12 Recombinant antibody (84895-3-RR, Clone:242491B3) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).