

## Suz12 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21242c

### **Specification**

# Suz12 Antibody (Center) - Product Information

Application WB, IHC-P,E
Primary Accession Q15022
Other Accession Q80U70
Reactivity Human, Mouse
Host Rabbit

Host Rabbit
Clonality polyclonal
Isotype Rabbit IgG

# Suz12 Antibody (Center) - Additional Information

### **Gene ID 23512**

#### **Other Names**

Polycomb protein Suz12, Suppressor of zeste 12 protein homolog, Suz12, D11Ertd530e, Kiaa0160

### Target/Specificity

This Suz12 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 381-395 amino acids from the central region of mouse Suz12.

### **Dilution**

WB~~1:2000 IHC-P~~1:25

E~~Use at an assay dependent concentration.

## **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

Suz12 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Suz12 Antibody (Center) - Protein Information

# Name SUZ12

Synonyms CHET9, JJAZ1, KIAA0160



**Function** Polycomb group (PcG) protein. Component of the PRC2 complex, which methylates 'Lys-9' (H3K9me) and 'Lys-27' (H3K27me) of histone H3, leading to transcriptional repression of the affected target gene (PubMed:15225548, PubMed:15231737, PubMed:15385962, PubMed:16618801, PubMed:17344414, PubMed:18285464, PubMed:28229514, PubMed:29499137, PubMed:31959557). The PRC2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems (PubMed:12351676, PubMed:12435631, PubMed:15099518, PubMed:15225548, PubMed:15385962, PubMed:15684044, PubMed:16431907, PubMed:18086877, PubMed:18285464). Genes repressed by the PRC2 complex include HOXC8, HOXA9, MYT1 and CDKN2A (PubMed:15231737, PubMed:16618801, PubMed:17200670, PubMed:31959557).

### **Cellular Location**

Nucleus Note=Localizes to chromatin as part of the PRC2 complex

#### **Tissue Location**

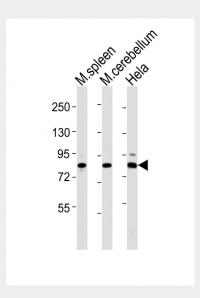
Overexpressed in breast and colon cancer.

### Suz12 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

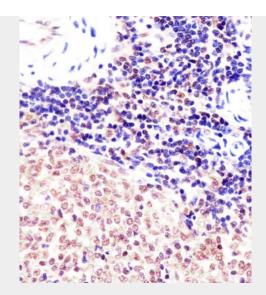
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Suz12 Antibody (Center) - Images



All lanes: Anti-Suz12 Antibody (Center) at 1:2000 dilution Lane 1: mouse spleen lysates Lane 2: mouse cerebellum lysates Lane 3: Hela 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: 83 kDa Blocking/Dilution buffer: 5% NFDM/TBST.





AP21242c staining Suz12 in mouse spleen sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

# Suz12 Antibody (Center) - Background

Polycomb group (PcG) protein. Component of the PRC2/EED- EZH2 complex, which methylates 'Lys-9' (H3K9me) and 'Lys-27' (H3K27me) 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 (By similarity). Genes repressed by the PRC2/EED-EZH2 complex include HOXA7, HOXB6 and HOXC8.

# **Suz12 Antibody (Center) - References**

Okazaki N.,et al.DNA Res. 10:35-48(2003). Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009). Pasini D.,et al.EMBO J. 23:4061-4071(2004). Umlauf D.,et al.Nat. Genet. 36:1296-1300(2004). Kuzmichev A.,et al.Proc. Natl. Acad. Sci. U.S.A. 102:1859-1864(2005).