

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
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, D11Ert530e, 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

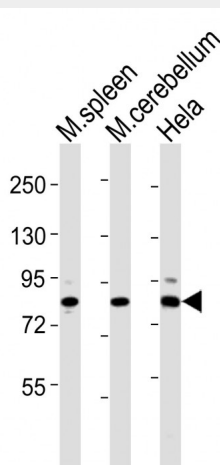
Overexpressed in breast and colon cancer.

Suz12 Antibody (Center) - Protocols

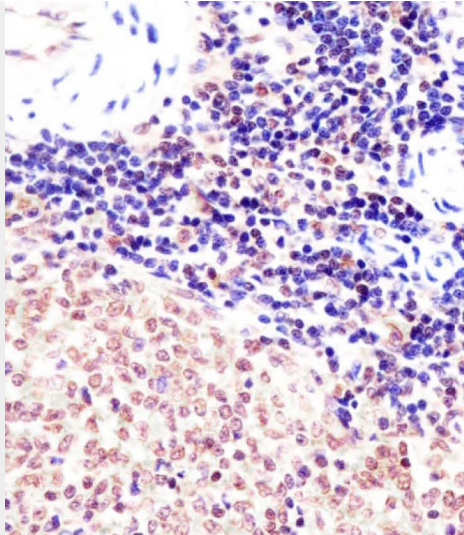
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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 hour 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).