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# SUZ12 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21396c

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q15022 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat, Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB51415 |
| **Calculated MW** | 83055 |

## Additional Information

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| **Gene ID** | 23512 |
| **Other Names** | Polycomb protein SUZ12, Chromatin precipitated E2F target 9 protein, ChET 9 protein, Joined to JAZF1 protein, Suppressor of zeste 12 protein homolog, SUZ12, CHET9, JJAZ1, KIAA0160 |
| **Target/Specificity** | This SUZ12 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 375-408 amino acids from the Central region of human SUZ12. |
| **Dilution** | WB~~1:2000 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. |

## Protein Information

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|---|---|
| **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.

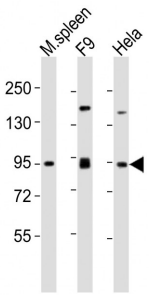
## Background

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. Genes repressed by the PRC2/EED-EZH2 complex include HOXC8, HOXA9, MYT1 and CDKN2A.

## References


Nagase T.,et al.DNA Res. 2:167-174(1995).
Koontz J.I.,et al.Proc. Natl. Acad. Sci. U.S.A. 98:6348-6353(2001).
Weinmann A.S.,et al.Mol. Cell. Biol. 21:6820-6832(2001).
Kuzmichev A.,et al.Genes Dev. 16:2893-2905(2002).
Cao R.,et al.Science 298:1039-1043(2002).


## Images




All lanes : Anti-SUZ12 Antibody (Center) at 1:2000 dilution Lane 1: mouse spleen lysates Lane 2: F9 whole cell 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.


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.