

**SUZ12 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1495a****Specification**

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**SUZ12 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">O15022</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>83.1kDa KDa</b>

**Description**

This zinc finger gene has been identified at the breakpoints of a recurrent chromosomal translocation reported in endometrial stromal sarcoma. Recombination of these breakpoints results in the fusion of this gene and JAZF1. The protein encoded by this gene contains a zinc finger domain in the C terminus of the coding region. (Provided by RefSeq) SUZ12 is overexpressed in several human tumors, including tumors of the colon, breast and liver. Tissue specificity: Overexpressed in breast and colon cancer.

**Immunogen**

Purified recombinant fragment of human SUZ12 expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**SUZ12 Antibody - Additional Information**

**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, JAZ1, KIAA0160

**Dilution**

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SUZ12 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SUZ12 Antibody - 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:<a href="http://www.uniprot.org/citations/15225548" target="\_blank">15225548</a>, PubMed:<a href="http://www.uniprot.org/citations/15231737" target="\_blank">15231737</a>, PubMed:<a href="http://www.uniprot.org/citations/15385962" target="\_blank">15385962</a>, PubMed:<a href="http://www.uniprot.org/citations/16618801" target="\_blank">16618801</a>, PubMed:<a href="http://www.uniprot.org/citations/17344414" target="\_blank">17344414</a>, PubMed:<a href="http://www.uniprot.org/citations/18285464" target="\_blank">18285464</a>, PubMed:<a href="http://www.uniprot.org/citations/28229514" target="\_blank">28229514</a>, PubMed:<a href="http://www.uniprot.org/citations/29499137" target="\_blank">29499137</a>, PubMed:<a href="http://www.uniprot.org/citations/31959557" target="\_blank">31959557</a>). The PRC2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems (PubMed:<a href="http://www.uniprot.org/citations/12351676" target="\_blank">12351676</a>, PubMed:<a href="http://www.uniprot.org/citations/12435631" target="\_blank">12435631</a>, PubMed:<a href="http://www.uniprot.org/citations/15099518" target="\_blank">15099518</a>, PubMed:<a href="http://www.uniprot.org/citations/15225548" target="\_blank">15225548</a>, PubMed:<a href="http://www.uniprot.org/citations/15385962" target="\_blank">15385962</a>, PubMed:<a href="http://www.uniprot.org/citations/15684044" target="\_blank">15684044</a>, PubMed:<a href="http://www.uniprot.org/citations/16431907" target="\_blank">16431907</a>, PubMed:<a href="http://www.uniprot.org/citations/18086877" target="\_blank">18086877</a>, PubMed:<a href="http://www.uniprot.org/citations/18285464" target="\_blank">18285464</a>). Genes repressed by the PRC2 complex include HOXC8, HOXA9, MYT1 and CDKN2A (PubMed:<a href="http://www.uniprot.org/citations/15231737" target="\_blank">15231737</a>, PubMed:<a href="http://www.uniprot.org/citations/16618801" target="\_blank">16618801</a>, PubMed:<a href="http://www.uniprot.org/citations/17200670" target="\_blank">17200670</a>, PubMed:<a href="http://www.uniprot.org/citations/31959557" target="\_blank">31959557</a>).

### Cellular Location

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

### Tissue Location

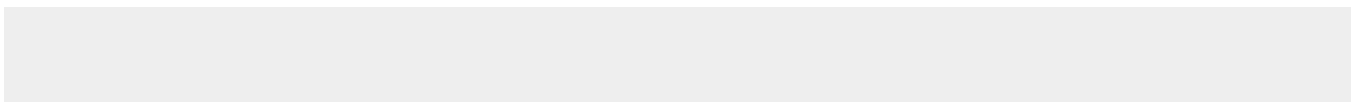
Overexpressed in breast and colon cancer.

## SUZ12 Antibody - 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 - Images



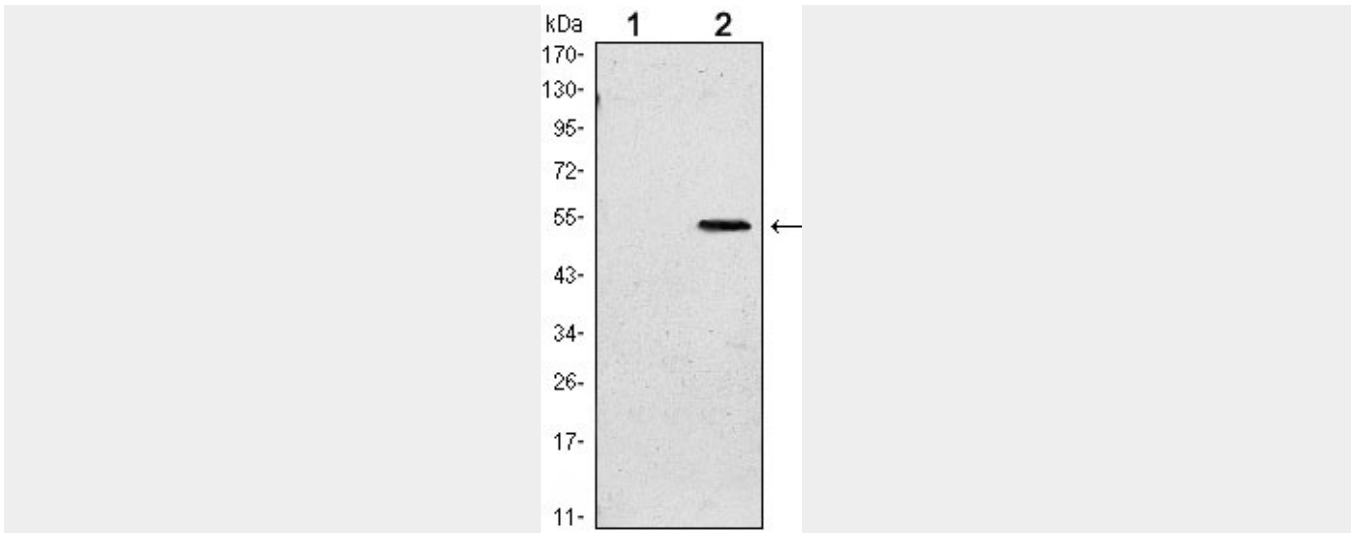


Figure 1: Western blot analysis using SUZ12 mAb against HEK293 (1) and SUZ12(AA: 533-739)-hlgGfc transfected HEK293 (2) cell lysate.

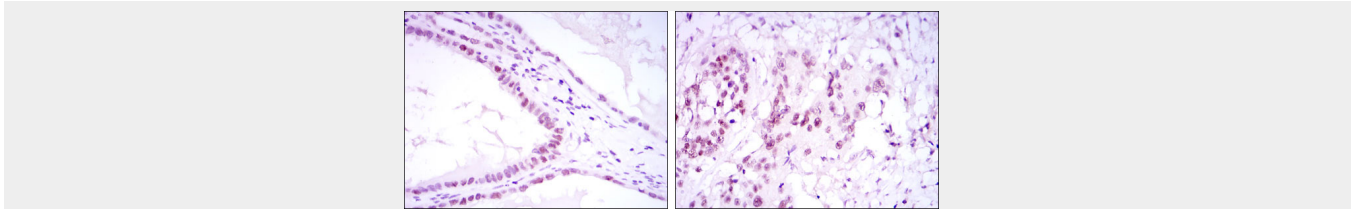


Figure 2: Immunohistochemical analysis of paraffin-embedded kidney convoluted tubule tissues (left) and esophageal cancer tissues (right) using SUZ12 mouse mAb with DAB staining.

### SUZ12 Antibody - References

1. Mol Cell. 2008 Nov 21;32(4):503-18.
2. Nat Cell Biol. 2008 Nov;10(11):1291-300.