

**Mouse Monoclonal Antibody to SUZ12**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2381a****Specification**

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**Mouse Monoclonal Antibody to SUZ12 - Product Information**

Application	<b>E, WB</b>
Primary Accession	<a href="#">O15022</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>Mouse IgG1</b>
Calculated MW	<b>83kDa 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.;

**Immunogen**

Purified recombinant fragment of human SUZ12 (AA: 1-139) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**Application Note**

ELISA: 1/10000; WB: 1/500 - 1/2000;

**Mouse Monoclonal Antibody to SUZ12 - Additional Information**

**Gene ID** 23512

**Other Names**

CHET9; JAZ1

**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**

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

**Mouse Monoclonal Antibody to SUZ12 - 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

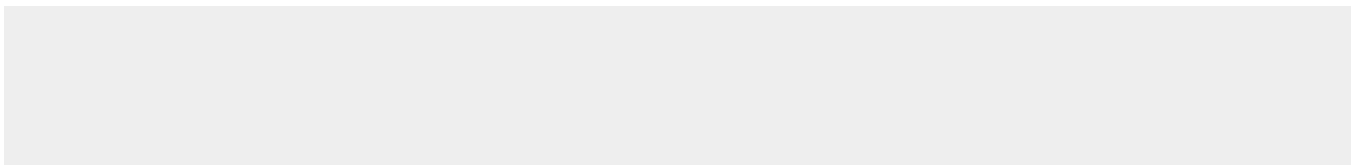
Overexpressed in breast and colon cancer.

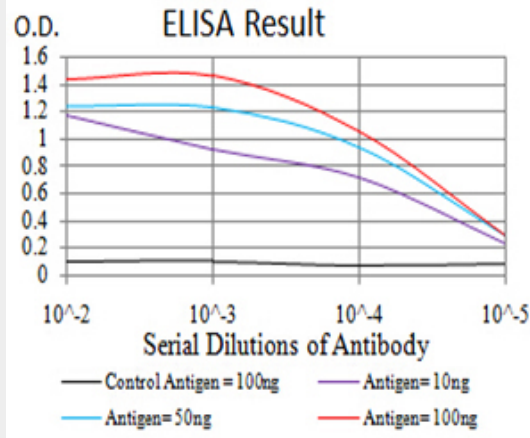
## Mouse Monoclonal Antibody to SUZ12 - Protocols

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

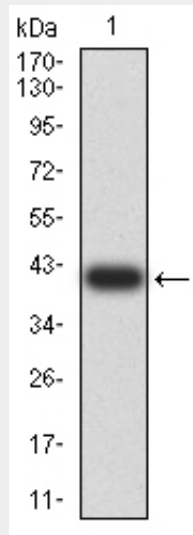
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Mouse Monoclonal Antibody to SUZ12 - Images

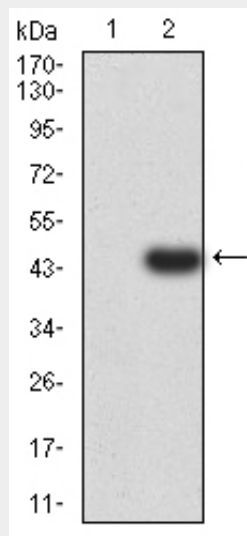




Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



Western blot analysis using SUZ12 mAb against human SUZ12 (AA: 1-139) recombinant protein. (Expected MW is 39.9 kDa)



Western blot analysis using SUZ12 mAb against HEK293 (1) and SUZ12 (AA: 1-139)-hIgGFc transfected HEK293 (2) cell lysate.

**Mouse Monoclonal Antibody to SUZ12 - References**

1. Tumour Biol. 2014 Jun;35(6):6073-82. ; 2. Cell Physiol Biochem. 2013;31(6):778-84.;