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# Mouse Monoclonal Antibody to SUZ12

Purified Mouse Monoclonal Antibody
Catalog # AO2380a

## Product Information

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|---|---|
| **Application** | WB, FC, E |
| **Primary Accession** | Q15022 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 2B9G12 |
| **Isotype** | Mouse IgG1 |
| **Calculated MW** | 83055 |
| **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; FCM: 1/200 - 1/400 |

## Additional Information

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|---|---|
| **Gene ID** | 23512 |
| **Other Names** | CHET9; JJAZ1 |
| **Dilution** | WB~~1:1000 FC~~1:10~50 E~~N/A |
| **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. |

## Protein Information

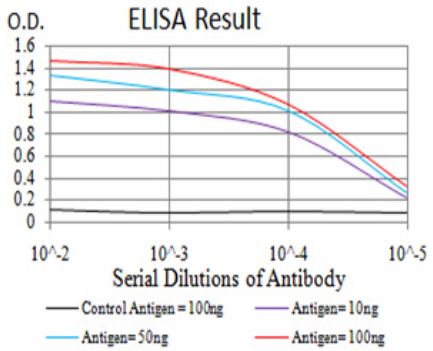
| | |
|---|---|
| **Name** | SUZ12 |
| **Synonyms** | CHET9, JJAZ1, KIAA0160 |

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

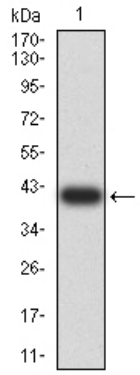
## References

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

## Images

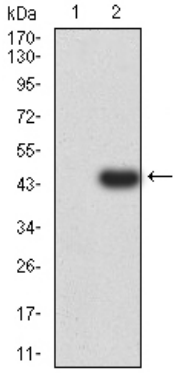


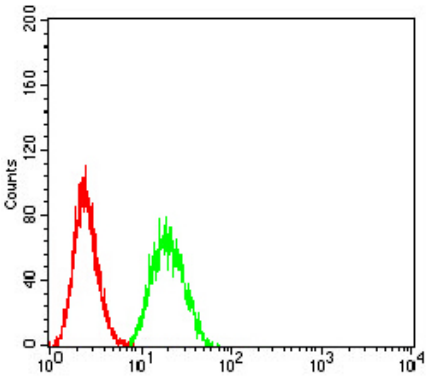

Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)




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.




Flow cytometric analysis of Hela cells using SUZ12 mouse mAb (green) and negative control (red).

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