

SUZ12 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1494a**Specification**

SUZ12 Antibody - Product Information

Application	WB, IF
Primary Accession	O15022
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	83.1kDa KDa

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

IF~~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: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

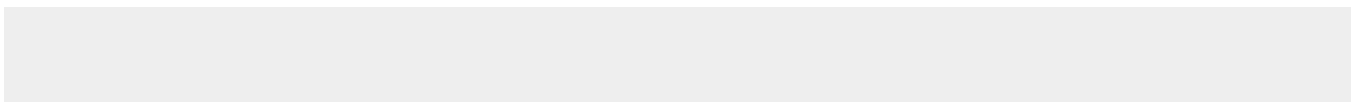
Overexpressed in breast and colon cancer.

SUZ12 Antibody - 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



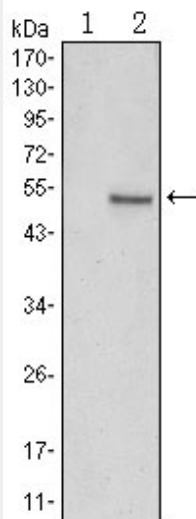


Figure 1: Western blot analysis using SUZ12 mAb against HEK293 (1) and SUZ12(AA: 533-739)-hlgGfc transfected HEK293 (2) cell lysate.

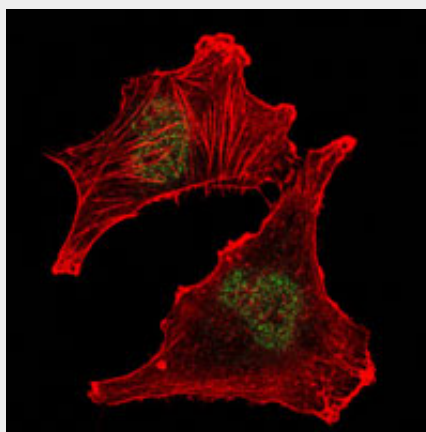


Figure 2: Immunofluorescence analysis of U251 cells using SUZ12 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

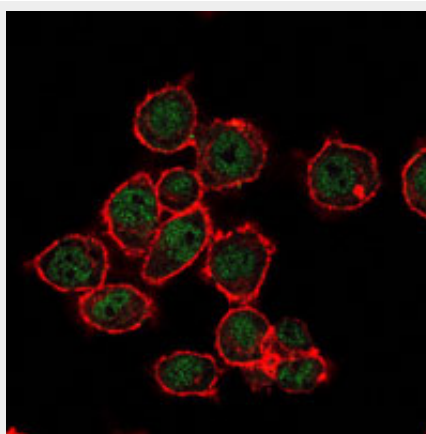


Figure 3: Immunofluorescence analysis of MCF-7 cells using SUZ12 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

SUZ12 Antibody - References

1. Genes Dev. 2008 May 15;22(10):1345-55.
2. Proc Natl Acad Sci U S A. 2007 Dec

11;104(50):20001-6.