

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

SUZ12 Antibody - Product Information

Application	WB, ICC, E
Primary Accession	Q15022
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

ICC~~N/A

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

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

SUZ12 Antibody - Protein Information

Name SUZ12**Synonyms** CHET9, JAZ1, 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

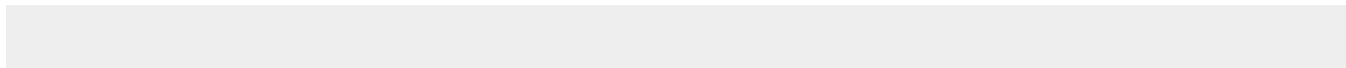
Tissue Location

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

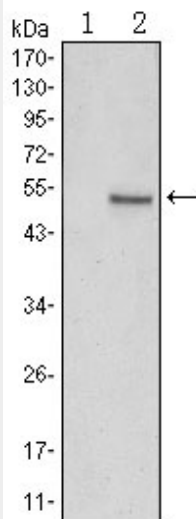


Figure 1: Western blot analysis using SUZ12 mAb against HEK293 (1) and SUZ12(AA: 533-739)-hlgGfc transfected HEK293 (2) cell lysate.

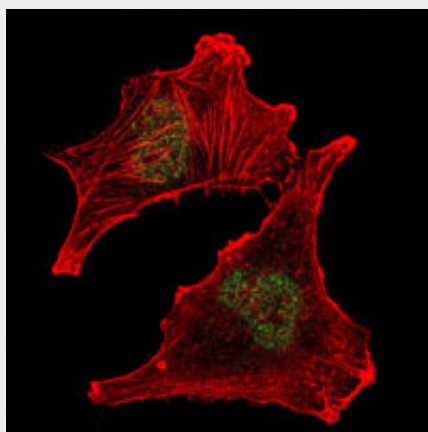


Figure 2: Immunofluorescence analysis of U251 cells using SUZ12 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

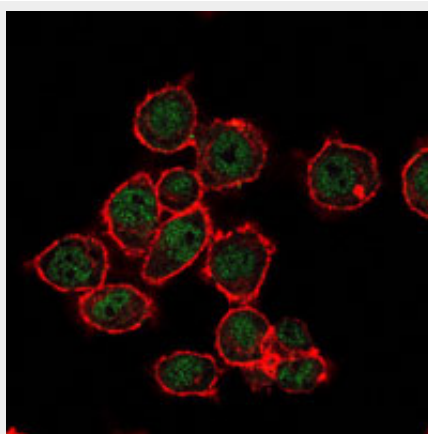


Figure 3: Immunofluorescence analysis of MCF-7 cells using SUZ12 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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.