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SUZ12 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1494a

Product Information

Application	WB, ICC, E
Primary Accession	Q15022
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2C11
Isotype	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. (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.

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, JJAZ1, 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.

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.

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.

Images

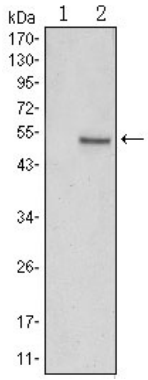


Figure 1: Western blot analysis using SUZ12 mAb against HEK293 (1) and SUZ12(AA: 533-739)-hIgGFc transfected HEK293 (2) cell lysate.

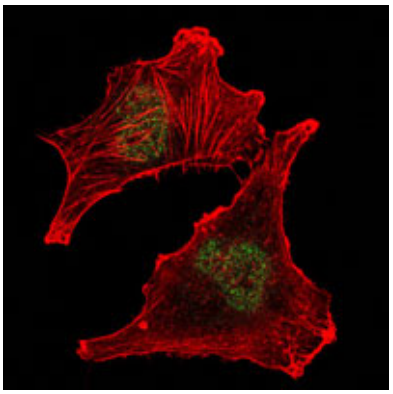
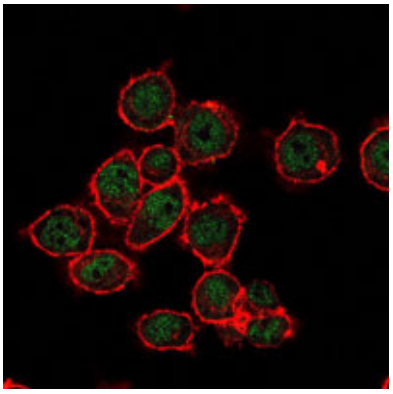


Figure 2: Immunofluorescence analysis of U251 cells using SUZ12 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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



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