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SUZ12 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1495a

Specification

SUZ12 Antibody - Product Information

Application	**WB, IHC**
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, JJAZ1, KIAA0160

Dilution
WB~~1/500 - 1/2000
IHC~~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:12435631, PubMed:12351676, PubMed:15385962, PubMed:15099518, PubMed:15225548, 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 Cytomety
- Cell Culture

SUZ12 Antibody - Images

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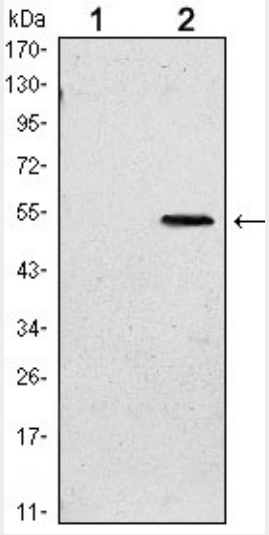


Figure 1: Western blot analysis using SUZ12 mAb against HEK293 (1) and SUZ12(AA: 533-739)-hIgGFc transfected HEK293 (2) cell lysate.

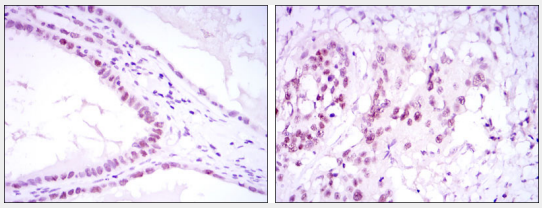


Figure 2: Immunohistochemical analysis of paraffin-embedded kidney convoluted tubule tissues (left) and esophageal cancer tissues (right) using SUZ12 mouse mAb with DAB staining.

SUZ12 Antibody - References

1. Mol Cell. 2008 Nov 21;32(4):503-18. 2. Nat Cell Biol. 2008 Nov;10(11):1291-300.