10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SUZ12 Blocking Peptide (Center)

Synthetic peptide
Catalog # BP21396c

Specification

SUZ12 Blocking Peptide (Center) - Product Information

Primary Accession Q15022

SUZ12 Blocking Peptide (Center) - 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

Target/Specificity
The synthetic peptide sequence is selected from aa 375-388 of HUMAN SUZ12

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SUZ12 Blocking Peptide (Center) - 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 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SUZ12 Blocking Peptide (Center) - Images

SUZ12 Blocking Peptide (Center) - Background

Polycomb group (PcG) protein. Component of the PRC2/EED- EZH2 complex, which methylates 'Lys-9' (H3K9me) and 'Lys-27' (H3K27me) of histone H3, leading to transcriptional repression of the affected target gene. The PRC2/EED-EZH2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems. Genes repressed by the PRC2/EED-EZH2 complex include HOXC8, HOXA9, MYT1 and CDKN2A.

SUZ12 Blocking Peptide (Center) - References

Nagase T.,et al.DNA Res. 2:167-174(1995).
Koontz J.I.,et al.Proc. Natl. Acad. Sci. U.S.A. 98:6348-6353(2001).
Weinmann A.S.,et al.Mol. Cell. Biol. 21:6820-6832(2001).
Kuzmichev A.,et al.Genes Dev. 16:2893-2905(2002).
Cao R.,et al.Science 298:1039-1043(2002).