

ASH2L Blocking Peptide (Center)
Synthetic peptide
Catalog # BP20971a**Specification**

ASH2L Blocking Peptide (Center) - Product Information

Primary Accession [O9UBL3](#)
Other Accession [O91X20](#)

ASH2L Blocking Peptide (Center) - Additional Information

Gene ID 9070

Other Names

Set1/Ash2 histone methyltransferase complex subunit ASH2, ASH2-like protein, ASH2L, ASH2L1

Target/Specificity

The synthetic peptide sequence is selected from aa 237-250 of HUMAN ASH2L

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.

ASH2L Blocking Peptide (Center) - Protein Information

Name ASH2L

Synonyms ASH2L1

Function

Transcriptional regulator (PubMed: [12670868](http://www.uniprot.org/citations/12670868)). Component or associated component of some histone methyltransferase complexes which regulates transcription through recruitment of those complexes to gene promoters (PubMed: [19131338](http://www.uniprot.org/citations/19131338)). Component of the Set1/Ash2 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3, but not if the neighboring 'Lys-9' residue is already methylated (PubMed: [19556245](http://www.uniprot.org/citations/19556245)). As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3 (PubMed: [19556245](http://www.uniprot.org/citations/19556245)). May play a role in hematopoiesis (PubMed: [12670868](http://www.uniprot.org/citations/12670868)). In association with RBBP5 and WDR5, stimulates the histone

methyltransferase activities of KMT2A, KMT2B, KMT2C, KMT2D, SETD1A and SETD1B (PubMed:21220120, PubMed:22266653).

Cellular Location

Nucleus.

Tissue Location

Ubiquitously expressed. Predominantly expressed in adult heart and testis and fetal lung and liver, with barely detectable expression in adult lung, liver, kidney, prostate, and peripheral leukocytes.

ASH2L Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

ASH2L Blocking Peptide (Center) - Images**ASH2L Blocking Peptide (Center) - Background**

Component of the Set1/Ash2 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3, but not if the neighboring 'Lys-9' residue is already methylated. As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3. May function as a transcriptional regulator. May play a role in hematopoiesis.

ASH2L Blocking Peptide (Center) - References

Wang J.,et al.J. Mol. Med. 79:399-405(2001).
Ikegawa S.,et al.Cytogenet. Cell Genet. 84:167-172(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Wysocka J.,et al.Genes Dev. 17:896-911(2003).