

ASH2L Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5313

Product Information

ApplicationWBPrimary AccessionQ9UBL3Other AccessionQ91X20

Reactivity Human, Mouse

Host Rabbit
Clonality Polyclonal
Calculated MW 68723
Isotype Rabbit IgG
Antigen Source HUMAN

Additional Information

Gene ID 9070

Antigen Region 237-270

Other Names Set1/Ash2 histone methyltransferase complex subunit ASH2, ASH2-like

protein, ASH2L, ASH2L1

Dilution WB~~1:1000

Target/Specificity This ASH2L antibody is generated from a rabbit immunized with a KLH

conjugated synthetic peptide between 237-270 amino acids from the Central

region of human ASH2L.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

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

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions ASH2L Antibody (Center) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

Name ASH2L

Synonyms ASH2L1

Function

Transcriptional regulator (PubMed: 12670868). Component or associated component of some histone methyltransferase complexes which regulates transcription through recruitment of those complexes to gene promoters (PubMed: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). As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3 (PubMed:19556245). May play a role in hematopoiesis (PubMed: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.

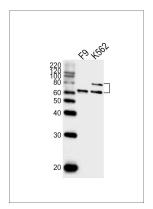
Background

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.

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).

Images



Western blot analysis of lysates from mouse F9,K562 cell line (from left to right), using ASH2L Antibody (Center)(Cat. #AW5313). AW5313 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.

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