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ASH2L Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5313

Product Information

Application	WB
Primary Accession	Q9UBL3
Other Accession	Q91X20
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.

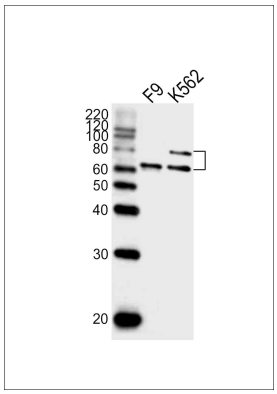
Background

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.