

Mouse Monoclonal Antibody to ASH2L
Purified Mouse Monoclonal Antibody
Catalog # AO2494a

Specification

Mouse Monoclonal Antibody to ASH2L - Product Information

Application	E, WB, FC, IHC
Primary Accession	O9UBL3
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	68.7kDa KDa

Description

ASH2L (Ash2 (Absent, Small, Or Homeotic)-Like (Drosophila)) is a Protein Coding gene. Diseases associated with ASH2L include Kabuki Syndrome 1. Among its related pathways are Developmental Biology and Signaling by Wnt. GO annotations related to this gene include transcription regulatory region DNA binding and histone methyltransferase activity (H3-K4 specific).;

Immunogen

Purified recombinant fragment of human ASH2L (AA: 493-628) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

Application Note

ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; FCM: 1/200 - 1/400

Mouse Monoclonal Antibody to ASH2L - Additional Information

Gene ID 9070

Other Names

ASH2; Bre2; ASH2L1; ASH2L2

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

Mouse Monoclonal Antibody to ASH2L is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Monoclonal Antibody to ASH2L - 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](http://www.uniprot.org/citations/21220120), PubMed: [22266653](http://www.uniprot.org/citations/22266653)).

Cellular Location

Nucleus.

Tissue Location

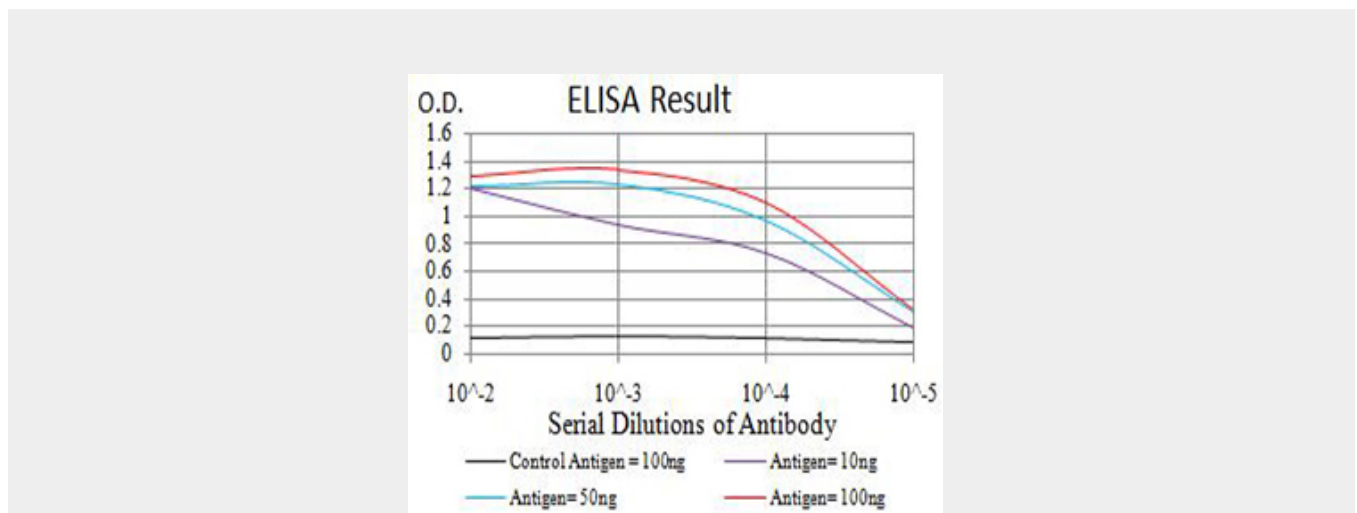
Ubiquitously expressed. Predominantly expressed in adult heart and testis and fetal lung and liver, with barely detectable expression in adult lung, liver, kidney, prostate, and peripheral leukocytes.

Mouse Monoclonal Antibody to ASH2L - Protocols

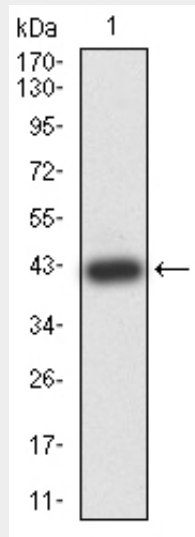
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

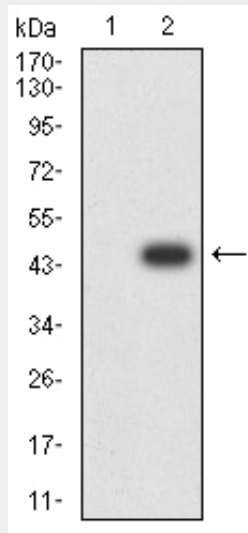
Mouse Monoclonal Antibody to ASH2L - Images



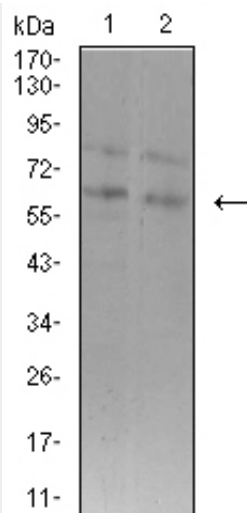
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



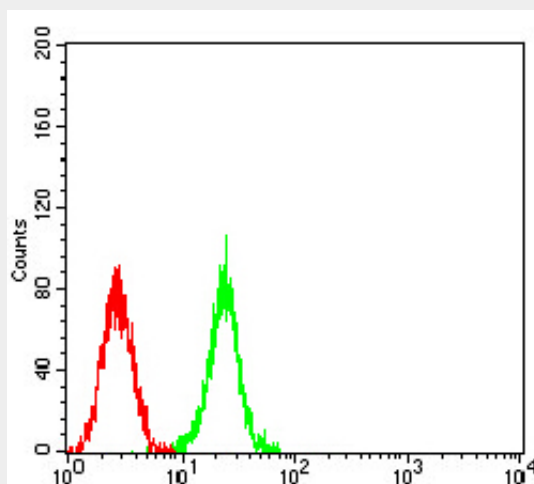
Western blot analysis using ASH2L mAb against human ASH2L (AA: 493-628) recombinant protein. (Expected MW is 41.6 kDa)



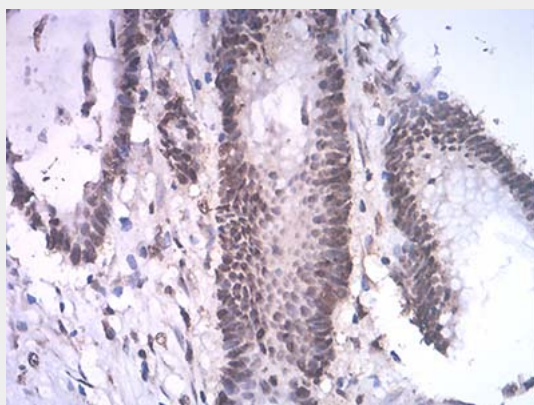
Western blot analysis using ASH2L mAb against HEK293 (1) and ASH2L (AA: 493-628)-hlgGfC transfected HEK293 (2) cell lysate.



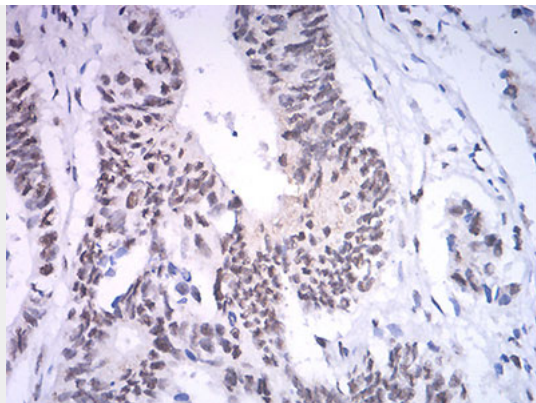
Western blot analysis using ASH2L mouse mAb against K562 (1) and F9 (2) cell lysate.



Flow cytometric analysis of K562 cells using ASH2L mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded colon cancer tissues using ASH2L mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using ASH2L mouse mAb with DAB staining.

Mouse Monoclonal Antibody to ASH2L - References

1.Mol Cell. 2013 Mar 28;49(6):1108-20. ; 2.Nat Struct Mol Biol. 2006 Sep;13(9):852-4. ;