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Mouse Monoclonal Antibody to ASH2L

Purified Mouse Monoclonal Antibody
Catalog # AO2494a

Specification

Mouse Monoclonal Antibody to ASH2L - Product Information

Application	**WB, IHC, FC, E**
Primary Accession	Q9UBL3
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

Dilution
WB~~1:1000
IHC~~1:100~500
FC~~1:10~50
E~~N/A

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). 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.

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 Cytomety
- Cell Culture

Mouse Monoclonal Antibody to ASH2L - Images

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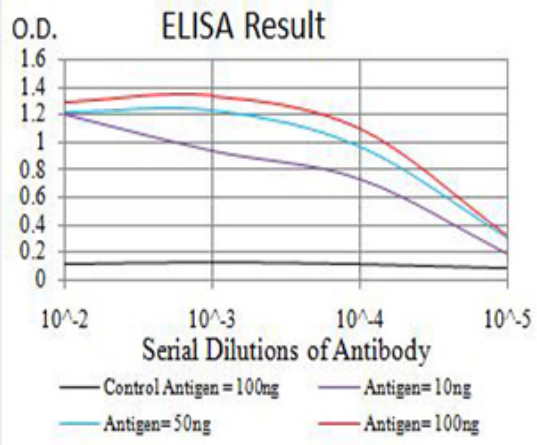
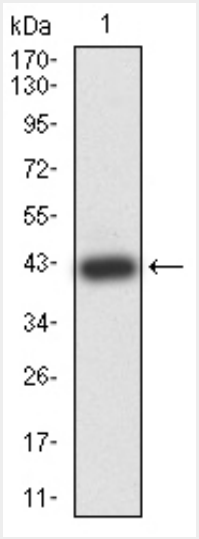
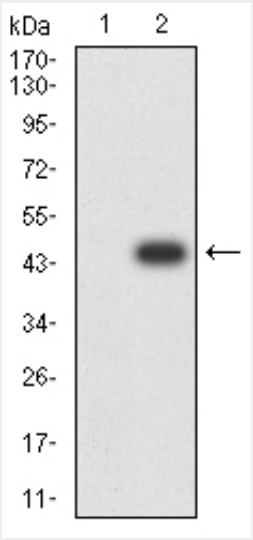


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



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)-hIgGFc transfected HEK293 (2) cell lysate.

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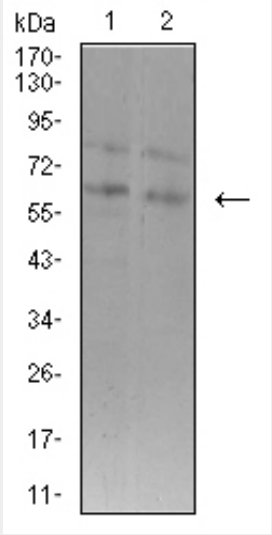
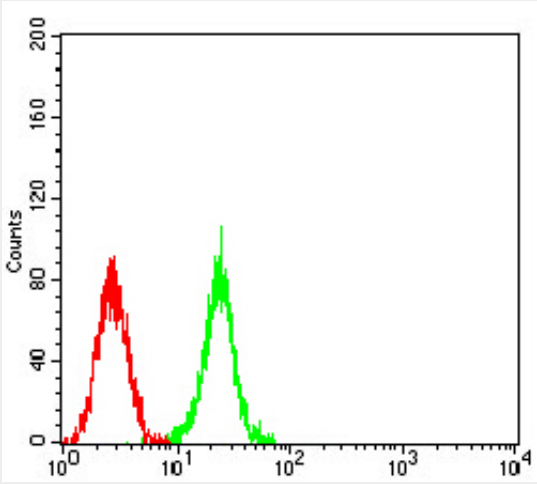
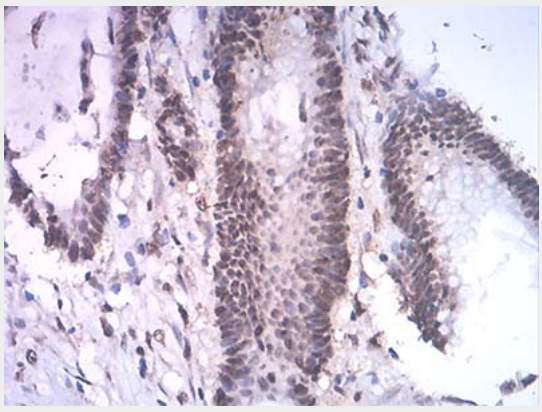


Western blot analysis using ASH2L mouse mAb against K562 (1) and F9 (2) cell lysate.



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.

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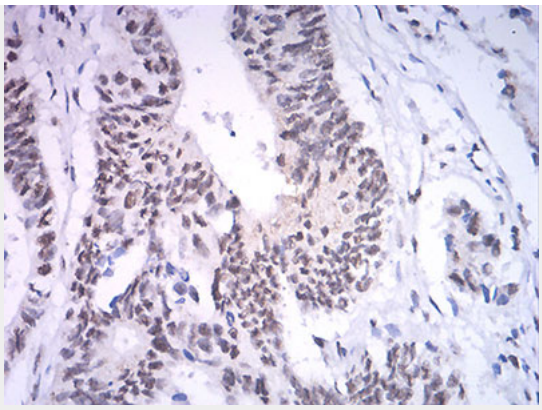

Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using ASH2L mouse mAb with DAB staining.

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. ;