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ASH2L
Purified Mouse Monoclonal Antibody
Catalog # AO2500a

Specification

ASH2L - Product Information

Application	**E, WB, IHC**
Primary Accession	Q9UBL3
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**68.7kDa KDa**

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

Formulation
Purified antibody in PBS with 0.05% sodium azide

ASH2L - Additional Information

Gene ID 9070

Other Names
ASH2; Bre2; ASH2L1; ASH2L2

Dilution
E~~ 1/10000
WB~~ 1/500 - 1/2000
IHC~~1/200 - 1/1000

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
ASH2L is for research use only and not for use in diagnostic or therapeutic procedures.

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.

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

ASH2L - Images

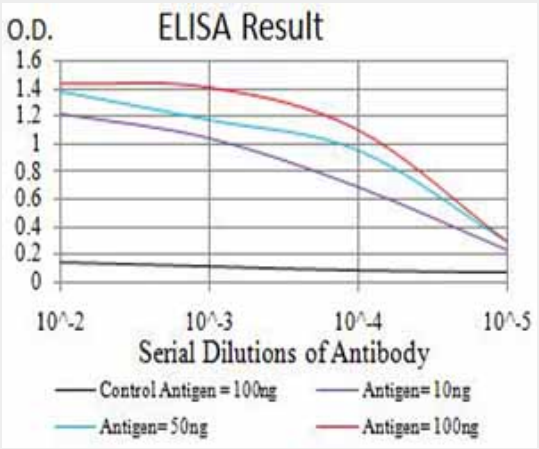

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

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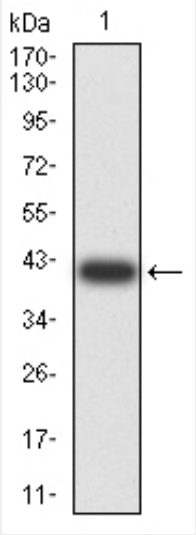

Figure 2:Western blot analysis using ASH2L mAb against human ASH2L (AA: 493-628) recombinant protein. (Expected MW is 41.6 kDa)

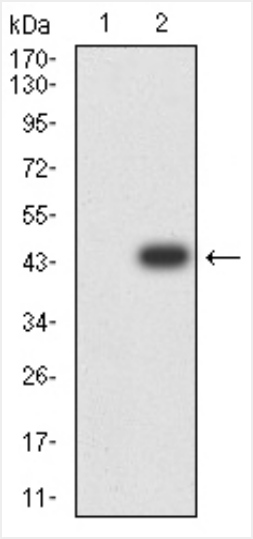

Figure 3:Western blot analysis using ASH2L mAb against HEK293 (1) and ASH2L (AA: 493-628)-hIgGFc transfected HEK293 (2) cell lysate.

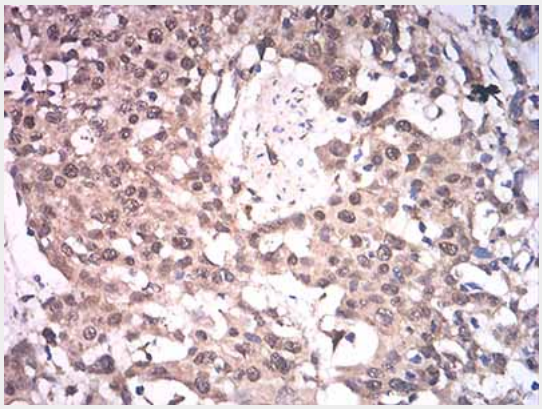

Figure 4:Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using ASH2L mouse mAb with DAB staining.

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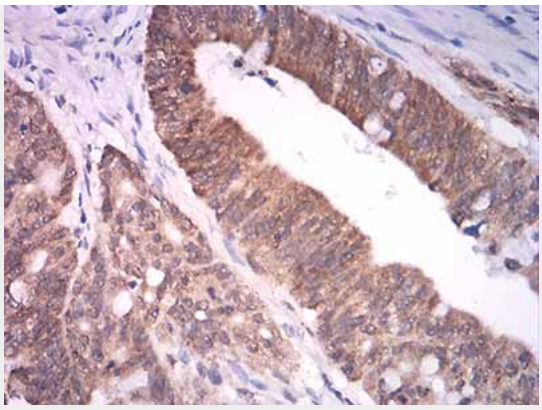

Figure 5:Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using ASH2L mouse mAb with DAB staining.

ASH2L - References

1.Mol Cell. 2013 Mar 28;49(6):1108-20. 2.Nat Struct Mol Biol. 2011 Jun 5;18(7):857-9.