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ASH2L

Purified Mouse Monoclonal Antibody
Catalog # AO2500a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q9UBL3
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6B10H10
Isotype	Mouse IgG1
Calculated MW	68723
Immunogen	Purified recombinant fragment of human ASH2L (AA: 493-628) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	9070
Other Names	ASH2; Bre2; ASH2L1; ASH2L2
Dilution	WB~~ 1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~N/A E~~ 1/10000
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.

Protein Information

Name	ASH2L (HGNC:744)
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.

References

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

Images

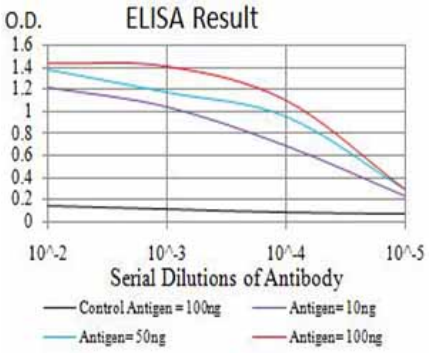


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

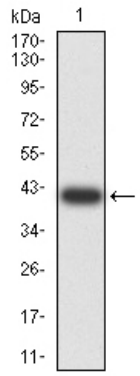


Figure 2:Western blot analysis using ASH2L mAb against human ASH2L (AA: 493-628) recombinant protein. (Expected MW is 41.6 kDa)

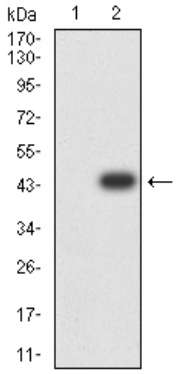


Figure 3:Western blot analysis using ASH2L mAb against HEK293 (1) and ASH2L (AA: 493-628)-hIgGFc transfected HEK293 (2) cell lysate.

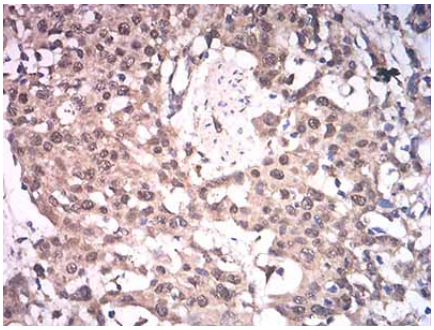


Figure 4:Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using ASH2L mouse mAb with DAB staining.

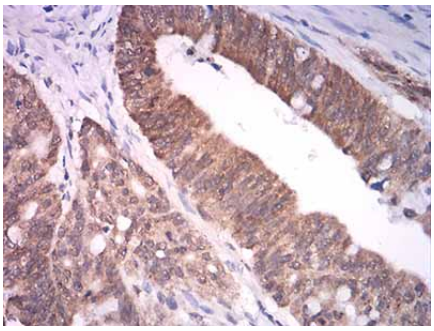


Figure 5:Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using ASH2L mouse mAb with DAB staining.

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