10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ASH1L Rabbit pAb

ASH1L Rabbit pAb
Catalog # AP94295

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9NR48
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	332790
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ASH1L
Epitope Specificity	1985-2060/2969
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cell junction, tight junction. Chromosome (Probable). Note=The relevance of tight junction localization is however unclear.
SIMILARITY	Belongs to the histone-lysine methyltransferase family. SET2 subfamily. Contains 3 A.T hook DNA-binding domains.Contains 1 AWS domain. Contains 1 BAH domain. Contains 1 bromo domain. Contains 1 PHD-type zinc finger. Contains 1 post-SET domain. Contains 1 SET domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ASH1L is a 2,969 amino acid protein encoded by the human gene ASH1L. ASH1L belongs to the histone-lysine methyltransferase family (SET2 subfamily) and contains three AT hook DNA-binding domains, one AWS domain, one BAH domain, one bromodomain, one PHD-type zinc finger, one post-SET domain and one SET domain. It is a widely expressed nuclear protein with highest expression found in brain, heart and kidney. ASH1L is a histone methyltransferase and is believed to methylate 'Lys-4' of Histone H3, which is a specific tag for epigenetic transcriptional activation.

Additional Information

Gene ID	55870
Other Names	Histone-lysine N-methyltransferase ASH1L, 2.1.1.359, 2.1.1.367, ASH1-like protein, huASH1, Absent small and homeotic disks protein 1 homolog, Lysine N-methyltransferase 2H, ASH1L, KIAA1420, KMT2H
Target/Specificity	Widely expressed, with highest level in brain, heart and kidney.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

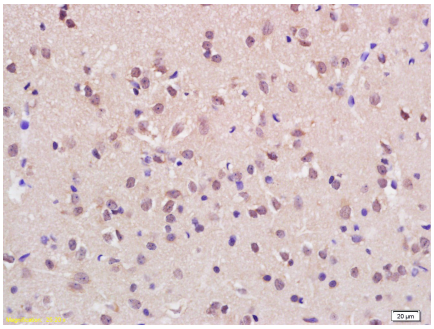
Protein Information

Name	ASH1L
Synonyms	KIAA1420, KMT2H
Function	Histone methyltransferase specifically trimethylating 'Lys- 36' of histone H3 forming H3K36me3 (PubMed:21239497). Also monomethylates 'Lys-9' of histone H3 (H3K9me1) in vitro (By similarity). The physiological significance of the H3K9me1 activity is unclear (By similarity).
Cellular Location	Nucleus. Cell junction, tight junction. Chromosome. Note=The relevance of tight junction localization is however unclear.
Tissue Location	Widely expressed, with highest level in brain, heart and kidney.

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-KMT2H/ASH1L Polyclonal Antibody, Unconjugated(AP94295) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining