

KMT2C Rabbit pAb

Catalog # AP99466

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8NEZ4
Other Accession	Q8NEZ4
Reactivity	Mouse
Predicted	Rat, Pig, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	541370
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KMT2C
Epitope Specificity	4701-4800/4911
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the histone-lysine methyltransferase family. TRX/MLL subfamily. Contains 1 A.T hook DNA-binding domain. Contains 1 DHHC-type zinc finger. Contains 6 PHD-type zinc fingers. Contains 1 post-SET domain. Contains 1 RING-type zinc finger. 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	This gene is a member of the myeloid/lymphoid or mixed-lineage leukemia (MLL) family and encodes a nuclear protein with an AT hook DNA-binding domain, a DHHC-type zinc finger, six PHD-type zinc fingers, a SET domain, a post-SET domain and a RING-type zinc finger. This protein is a member of the ASC-2/NCOA6 complex (ASCOM), which possesses histone methylation activity and is involved in transcriptional coactivation. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	58508
Other Names	HALR; KLEFS2; MLL3; KMT2C_HUMAN; KMT2C; Lysine N-methyltransferase 2C; Homologous to ALR protein; Myeloid/lymphoid or mixed-lineage leukemia protein 3; 2.1.1.364; KIAA1506; lysine methyltransferase 2C; myeloid/lymphoid or mixed-lineage leukemia 3; lysine (K)-specific methyltransferase 2C; Histone-lysine N-methyltransferase 2C
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	KMT2C
Synonyms	HALR, KIAA1506, MLL3
Function	Histone methyltransferase that catalyzes methyl group transfer from S-adenosyl-L-methionine to the epsilon-amino group of 'Lys-4' of histone H3 (H3K4) (PubMed: 25561738). Part of chromatin remodeling machinery predominantly forms H3K4me1 methylation marks at active chromatin sites where transcription and DNA repair take place (PubMed: 22266653 , PubMed: 24081332 , PubMed: 25561738). Likely plays a redundant role with KMT2D in enriching H3K4me1 mark on primed and active enhancer elements (PubMed: 24081332).
Cellular Location	Nucleus.
Tissue Location	Highly expressed in testis and ovary, followed by brain and liver. Also expressed in placenta, peripheral blood, fetal thymus, heart, lung and kidney. Within brain, expression was highest in hippocampus, caudate nucleus, and substantia nigra. Not detected in skeletal muscle and fetal liver

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