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KMT4 Rabbit mAb

Catalog # AP76894

Product Information

Application	WB, IHC-P
Primary Accession	Q8TEK3
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	164856

Additional Information

Gene ID	84444
Other Names	DOT1L
Dilution	WB~~1:1000 IHC-P~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	DOT1L (HGNC:24948)
Synonyms	KIAA1814, KMT4
Function	Histone methyltransferase that methylates 'Lys-79' of histone H3 (PubMed:12123582, PubMed:38503750, PubMed:38129415). Histones in nucleosomes are preferred as substrate compared to free histones (PubMed:12123582, PubMed:38503750). Binds to DNA (PubMed:12628190, PubMed:38503750). Together with MLLT3/AF9, is involved in SCNN1A transcriptional repression following H3K79 hypermethylation at the promoter (By similarity).
Cellular Location	Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q6XZL8}. Note=Cytoplasmic localization is dependent on and mediated by MLLT6/AF17 {ECO:0000250|UniProtKB:Q6XZL8}

Background

The protein encoded by this gene is a histone methyltransferase that methylates lysine-79 of histone H3. It is inactive against free core histones, but shows significant histone methyltransferase activity against nucleosomes.

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