KMT4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KMT4, Polyclonal Antibody
Full Product Name	KMT4, CT (Dot1L, Histone-lysine N-methyltransferase, H3 Lysine-79 Specific, Histone H3-K79 Methyltransferase, H3-K79-HMTase, DOT1-like Protein, Lysine N-methyltransferase 4, KIAA1814) (MaxLight 405)
Product Gene Name	anti-KMT4 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human DOT1L.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	165kDa
OMIM	AF509504 mRNA
3D Structure	ModBase 3D Structure for Q8TEK3
Immunogen	Synthetic peptide selected from the C-terminal region of human DOT1L (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-KMT4 antibody	Antibodies; Enzymes; Methyltransferase
Applications Tested/Suitable for anti-KMT4 antibody	Immunohistochemistry (IHC), FLISA
Application Notes for anti-KMT4 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-KMT4 antibody	MBS6472928 is an antibody targeting KMT4. Also known as KMT4, CT (Dot1L, Histone-lysine N-methyltransferase, H3 Lysine-79 Specific, Histone H3-K79 Methyltransferase, H3-K79-HMTase, DOT1-like Protein, Lysine N-methyltransferase 4, KIAA1814) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-KMT4 antibody	1. Feng, Q., et al., Curr. Biol. 12(12):1052-1058 (2002).
Other Notes	Small volumes of anti-KMT4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KMT4. It may not necessarily be applicable to this product.

NCBI GI #	22094135
NCBI GeneID	84444
NCBI Accession #	NP_115871
UniProt Primary Accession #	Q8TEK3
UniProt Related Accession #	Q8TEK3
GenBank Nucleotide #	NM_032482
NCBI Official Full Name	histone-lysine N-methyltransferase, H3 lysine-79 specific
NCBI Official Synonym Full Names	DOT1 like histone lysine methyltransferase
NCBI Official Symbol	DOT1L
NCBI Official Synonym Symbols	DOT1; KMT4
UniProt Protein Name	Histone-lysine N-methyltransferase, H3 lysine-79 specific
UniProt Synonym Protein Names	DOT1-like protein; Histone H3-K79 methyltransferase; H3-K79-HMTase; Lysine N-methyltransferase 4
UniProt Gene Name	DOT1L
UniProt Synonym Gene Names	KIAA1814; KMT4; H3-K79-HMTase
NCBI Protein Information	histone-lysine N-methyltransferase, H3 lysine-79 specific
NCBI Summary for KMT4	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. [provided by RefSeq, Aug 2011]
UniProt Comments for KMT4	Histone methyltransferase. Methylates 'Lys-79' of histone H3. Nucleosomes are preferred as substrate compared to free histones. Binds to DNA.
Research Articles on KMT4	**1.** The present study identifies H3K79me1 and DOT1L upregulation as a novel epigenetic signature of arsenic-exposed humans who have characteristic dermatological lesions.
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