

Rabbit anti-Human KMT4 / Dot1L Polyclonal Antibody | anti-DOT1L antibody

KMT4 / Dot1L Antibody (C-Term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283655	Rabbit	Human	Immunohistochemistry, ELISA

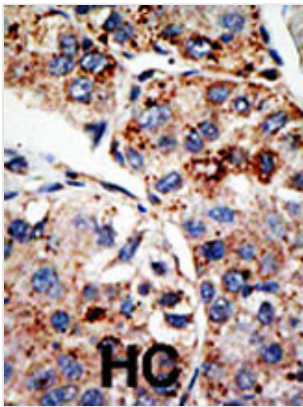
PRODUCT SYNONYMS

KMT4 / Dot1L; Polyclonal Antibody; KMT4 / Dot1L Antibody (C-Term); Histone-lysine N-methyltransferase; H3 lysine-79 specific; DOT1-like protein; Histone H3-K79 methyltransferase; H3-K79-HMTase; Lysine N-methyltransferase 4; DOT1L; KIAA1814; KMT4; anti-DOT1L antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This KMT4 / Dot1L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1390~1420 amino acids from the C-terminal region of human DOT1L.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	1390-1420
Sequence Length	1537
Applicable Applications for anti-DOT1L antibody	IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	Histone methyltransferase. Methylates 'Lys-79' of histone H3. Nucleosomes are preferred as substrate compared to free histones. Binds to DNA.
Cellular Location	Nucleus.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL INFORMATION

Related Product Information for anti-DOT1L antibody	Similar to acetylation and phosphorylation, histone methylation at the N-terminal tail has emerged as an important role in regulating chromatin dynamics and gene activity. Histone methylation occurs on arginine and lysine residues and is catalyzed by two families of proteins, the protein arginine methyltransferase family and the SET-domain-containing methyltransferase family. Five members have been identified in the arginine methyltransferase family. About 27 are grouped into the SET-domain family, and another 17 make up the PR domain family that is related to the SET domain family. The retinoblastoma protein-interacting zinc finger geneRIZ1 is a tumor suppressor gene and a FOUNDING member of the PR domain family. RIZ1 inactivation is commonly found in many types of human cancers and occurs through loss of mRNA expression, frame shift mutation, chromosomal deletion, and missense mutation. RIZ1 is also a tumor susceptibility gene in mice. The loss of RIZ1 mRNA in human cancers was shown to associate with DNA methylation of its promoter CpG island. Methylation of the RIZ1 promoter strongly correlated with lost or decreased RIZ1 mRNA expression in breast, liver, colon, and lung cancer cell lines as well as in liver cancer tissues.
References	Feng, Q., et al., Curr. Biol. 12(12):1052-1058 (2002).

NCBI AND UNIPROT INFORMATION

NCBI GI #	22094135
NCBI GeneID	84444
NCBI Accession #	NP_115871
NCBI GenBank Nucleotide #	NM_032482.2
UniProt Accession #	Q8TEK3; O60379; Q96JL1
Molecular Weight	184853
NCBI Official Full Name	histone-lysine N-methyltransferase, H3 lysine-79 specific
NCBI Official Synonym Full Names	DOT1-like histone H3K79 methyltransferase
NCBI Official Symbol	DOT1L
NCBI Official Synonym Symbols	DOT1; KMT4
NCBI Protein Information	histone-lysine N-methyltransferase, H3 lysine-79 specific
UniProt Protein Name	Histone-lysine N-methyltransferase, H3 lysine-79 specific
UniProt Gene Name	DOT1L

UniProt Synonym Gene Names	KIAA1814; KMT4; H3-K79-HMTase
UniProt Entry Name	DOT1L_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/kmt4-dot1l-antibody-immunohistochemistry-elisa/283655>