

# Anti-KMT4 / Dot1L Rabbit Monoclonal Antibody

Catalog # ABO14118

## Product Information

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|--------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                                  |
| <b>Primary Accession</b> | <a href="#">Q8TEK3</a>                                                                                              |
| <b>Host</b>              | Rabbit                                                                                                              |
| <b>Isotype</b>           | Rabbit IgG                                                                                                          |
| <b>Reactivity</b>        | Human, Mouse                                                                                                        |
| <b>Clonality</b>         | Monoclonal                                                                                                          |
| <b>Format</b>            | Liquid                                                                                                              |
| <b>Description</b>       | Anti-KMT4 / Dot1L Rabbit Monoclonal Antibody . Tested in WB application.<br>This antibody reacts with Human, Mouse. |

## Additional Information

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| <b>Gene ID</b>                  | 84444                                                                                                                                                                                                                        |
| <b>Other Names</b>              | Histone-lysine N-methyltransferase, H3 lysine-79 specific, 2.1.1.360, DOT1-like protein, Histone H3-K79 methyltransferase, H3-K79-HMTase, Lysine N-methyltransferase 4, DOT1L ( <a href="#">HGNC:24948</a> ), KIAA1814, KMT4 |
| <b>Calculated MW</b>            | 164856                                                                                                                                                                                                                       |
| <b>Application Details</b>      | WB 1:500-1:3000                                                                                                                                                                                                              |
| <b>Subcellular Localization</b> | Nucleus.                                                                                                                                                                                                                     |
| <b>Tissue Specificity</b>       | KMT4 / Dot1L Antibody detects endogenous levels of total KMT4 / Dot1L                                                                                                                                                        |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                    |
| <b>Contents</b>                 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                                          |
| <b>Clone Names</b>              | Clone: CBF-4                                                                                                                                                                                                                 |
| <b>Immunogen</b>                | A synthesized peptide derived from human KMT4 / Dot1L                                                                                                                                                                        |
| <b>Purification</b>             | Affinity-chromatography                                                                                                                                                                                                      |
| <b>Storage</b>                  | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                                                   |

## Protein Information

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|-------------|--------------------------------------|
| <b>Name</b> | DOT1L ( <a href="#">HGNC:24948</a> ) |
|-------------|--------------------------------------|

**Synonyms**

KIAA1814, KMT4

**Function**

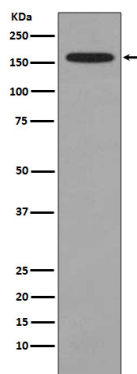
Histone methyltransferase that methylates 'Lys-79' of histone H3 (PubMed:[12123582](#), PubMed:[38503750](#), PubMed:[38129415](#)). Histones in nucleosomes are preferred as substrate compared to free histones (PubMed:[12123582](#), PubMed:[38503750](#)). Binds to DNA (PubMed:[12628190](#), PubMed:[38503750](#)). 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}

**Images**

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Western blot analysis of KMT4/Dot1L expression in RAW264.7 cell lysate.

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