

For Research Use Only

# DOT1L Polyclonal antibody

Catalog Number: 28145-1-AP



## Basic Information

Catalog Number:

28145-1-AP

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27229

GenBank Accession Number:

NM\_032482

GeneID (NCBI):

84444

UNIPROT ID:

Q8TEK3

Full Name:

DOT1-like, histone H3 methyltransferase (*S. cerevisiae*)

Calculated MW:

185 kDa

Observed MW:

185-200 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, rat

Positive Controls:

WB : PC-12 cells,

## Background Information

DOT1L (Disruptor of telomeric silencing 1-like) is the only known histone methyltransferase catalyzing H3K79 methylation which is an activating mark for gene transcription by promoting transcriptional elongation (PMID: 34187895). DOT1L forms a complex with AF10/AF17 and ENL/AF9, is dysregulated in mixed-lineage leukemia (MLLr), and is believed to regulate transcriptional elongation without direct evidence. DOT1L has been reported to directly interact with RNAPII phosphorylated on Ser2 and/or Ser5 of the C-terminal domain (CTD) of its largest subunit. Loss of Dot1L results in yolk sac angiogenesis defects and embryonic lethality (PMID: 18787701).

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28145-1-AP (DOT1L antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.