

For Research Use Only

# DOT1L Polyclonal antibody, PBS Only

Catalog Number: 28145-1-PBS



## Basic Information

Catalog Number:

28145-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

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

## Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human, rat

## 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 -80°C.

Storage Buffer:

PBS Only

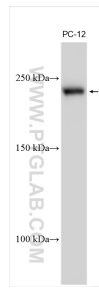
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## Selected Validation Data



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. This data was developed using the same antibody clone with 28145-1-PBS in a different storage buffer formulation.