

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DOT1L in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) PCDH-8, rhNME-3, or rhWISP-3 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 653613
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DOT1L Gly2-Lys416 Accession # Q8TEK3
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

DOT1L (mammalian counterpart of yeast Dot1) is a 1537 amino acid (aa), 165 kDa (predicted) nuclear non-SET domain histone H3K79 methyltransferase. It is involved in developmental gene transcription and maintenance of chromatin structure, and may promote mixed lineage leukemia. Within the sequence used as an immunogen, human DOT1L shares 97% and 94% aa identity with mouse and rat DOT1L, respectively. Two human isoforms affect this region: a 1467 aa form has an alternate start site at aa 71, while a 1513 aa form lacks aa 89-112. A third isoform of 1739 aa has a 202 aa C-terminal extension.

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