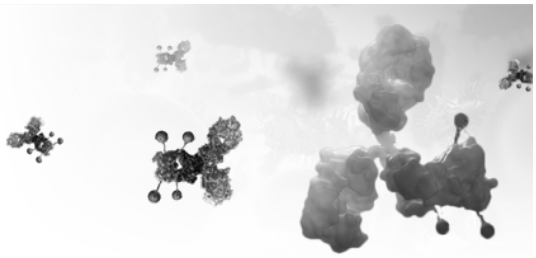

Mouse anti-Human DNMT3L monoclonal antibody, clone T2280 (CABT-B10125)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Recombinant protein corresponding to full length human DNMT3L.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	T2280
Conjugate	Unconjugated
Applications	WB,ICC,IP
Format	Liquid
Size	100 µg
Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide)
Storage	At -20°C for one year.

BACKGROUND

Introduction	CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a nuclear protein with similarity to DNA methyltransferases, but is not thought to function as a DNA methyltransferase as it does not contain the amino acid residues necessary for methyltransferase activity.

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	However, it does stimulate de novo methylation by DNA cytosine methyltransferase 3 alpha and is thought to be required for the establishment of maternal genomic imprints. This protein also mediates transcriptional repression through interaction with histone deacetylase 1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2012]
Keywords	DNMT3L; DNA (cytosine-5-)-methyltransferase 3-like; DNA (cytosine-5)-methyltransferase 3-like; cytosine-5-methyltransferase 3-like protein; human cytosine-5-methyltransferase 3-like protein;

GENE INFORMATION

Entrez Gene ID	29947
UniProt ID	Q9UJW3
Pathway	Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem
Function	enzyme activator activity; enzyme binding; metal ion binding; protein binding

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