ARG22285
anti-Dnmt3L antibody [S117-9]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [S117-9] recognizes Dnmt3L
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, IHC-P, IP, WB
Specificity	Detects ~45kDa. No cross-reactivity against DNMT3a or DNMT3B.
Host	Mouse
Clonality	Monoclonal
Clone	S117-9
Isotype	IgG1
Target Name	Dnmt3L
Species	Human
Immunogen	Fusion protein around aa. 1-387 of Human Dnmt3L
Conjugation	Un-conjugated
Alternate Names	DNA (cytosine-5)-methyltransferase 3-like

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
IHC-P	1:100
IP	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

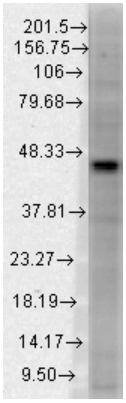
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.09% Sodium azide and 50% Glycerol
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

	and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 29947 Human GeneID: 54427 Mouse Swiss-port # Q9CWR8 Mouse Swiss-port # Q9UJW3 Human
Gene Symbol	DNMT3L
Gene Full Name	DNA (cytosine-5-)-methyltransferase 3-like
Background	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. 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]
Function	Catalytically inactive regulatory factor of DNA methyltransferases. It is essential for the function of DNMT3A and DNMT3B. Activates DNMT3A and DNMT3B by binding to their catalytic domain. Accelerates the binding of DNA and AdoMet to the methyltransferases and dissociates from the complex after DNA binding to the methyltransferases. Recognizes unmethylated histone H3 lysine 4 (H3K4) and induces de novo DNA methylation by recruitment or activation of DNMT3. [UniProt]
Calculated Mw	44 kDa
Cellular Localization	Nucleus

Images



ARG22285 anti-Dnmt3L antibody [S117-9] WB image

Western blot: Human tissue lysate stained with ARG22285 anti-Dnmt3L antibody [S117-9] at 1:1000 dilution.