

Rat DNA Methyltransferase 1 ELISA Kit | DNMT1 elisa kit

Rat DNA Methyltransferase 1 (DNMT1) ELISA Kit

CATALOG #
AAA144527

REACTIVITY
Rat

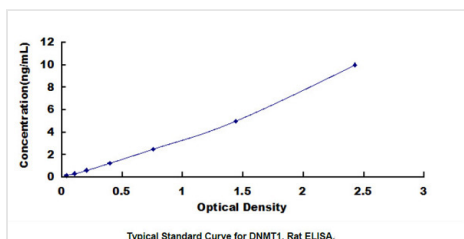
PRODUCT SYNONYMS

DNA Methyltransferase 1; Rat DNA Methyltransferase 1 (DNMT1) ELISA Kit; CXXC9; DNMT; MCMT; Cytosine-5 DNA Methyltransferase 1; CXXC-type zinc finger protein 9; DNA methyltransferase Hsa1; DNMT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of DNA Methyltransferase 1 (DNMT1). No significant cross-reactivity or interference between DNA Methyltransferase 1 (DNMT1) and analogues was observed.
Sequence Length	1620
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.059ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level DNA Methyltransferase 1 (DNMT1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level DNA Methyltransferase 1 (DNMT1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for DNMT1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to DNA Methyltransferase 1 (DNMT1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to DNA Methyltransferase 1 (DNMT1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain DNA Methyltransferase 1 (DNMT1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of DNA Methyltransferase 1 (DNMT1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for DNMT1 elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	1765919
NCBI GeneID	13433
UniProt Accession #	P13864; P97413; Q80ZU3; Q9CSC6; Q9QXX6
Molecular Weight	169,996 Da
NCBI Official Full Name	DNA methyltransferase 1
NCBI Official Synonym Full Names	DNA methyltransferase (cytosine-5) 1
NCBI Official Symbol	Dnmt1
NCBI Official Synonym Symbols	Dnmt; MCMT; Met1; Cxxc9; MTase; Met-1; Dnmt1o; m.Mmul; MommeD2
NCBI Protein Information	DNA (cytosine-5)-methyltransferase 1
UniProt Protein Name	DNA (cytosine-5)-methyltransferase 1
UniProt Gene Name	Dnmt1
UniProt Synonym Gene Names	Dnmt; Met1; Uim; Dnmt1; Met-1; DNA MTase Mmul; M.Mmul
UniProt Entry Name	DNMT1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.