Mouse DNA (cytosine-5)-methyltransferase 3B (DNMT3B) ELISA Kit

Catalog No: #EK10545

Package Size: #EK10545-1 48T #EK10545-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Mouse DNA (cytosine-5)-methyltransferase 3B (DNMT3B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	ICF; M.HsaIIIB; DNA MTase HsaIIIB|DNA cytosine-5 methyltransferase 3 beta|DNA methyltransferase HsaIIIB
Accession No.	O88509
Uniprot	O88509
GeneID	13436;
Storage	The stability of ELISA 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. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.052 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate DNMT3B in samples. An antibody specific for DNMT3B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDNMT3B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DNMT3B is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of DNMT3B bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:DNMT3B, is a protein associated with immunodeficiency, centromere instability and facial anomalies syndrome. 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 DNA methyltransferase which is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes primarily to the nucleus and its expression is developmentally regulated. Mutations in this gene cause the immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. Six alternatively spliced transcript variants have been described. The full length sequences of variants 4 and 5 have not been determined.

Note: This product is for in vitro research use only