Human Lysine-specific demethylase 4A (KDM4A) ELISA Kit

Catalog No: #EK10237

Package Size: #EK10237-1 48T #EK10237-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Lysine-specific demethylase 4A (KDM4A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	JHDM3A; JMJD2; JMJD2A; KIAA0677; jumonji C domain-containing histone demethylase 3A|jumonji domain containing 2|jumonji domain containing 2A
Accession No.	O75164
Uniprot	O75164
GeneID	9682;
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:0.312-20 ng/mL

Sensitivity:0.126 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 KDM4A in samples. An antibody specific for KDM4A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKDM4A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KDM4A 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 KDM4A bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:JMJD2A encodes a deduced 1,064-amino acid protein. Like JMJD2B and JMJD2C, JMJD2A contains a JmjN domain, a JmjC domain, a JD2H domain, 2 TUDOR domains, and a bipartite nuclear localization signal that overlaps the C-terminal part of the second TUDOR domain. JmjN is a small domain found in the Jumonji family of transcription factors. JmjC is a putative enzymatic domain. JD2H is a region containing 2 cys-his clusters with weak similarity to a PHD domain.This gene is a member of the Jumonji domain 2 (JMJD2) family and encodes a protein containing a JmjN domain, a JmjC domain, a JD2H domain, two TUDOR domains, and two PHD-type zinc fingers. This nuclear protein functions as a trimethylation-specific demethylase, converting specific trimethylated histone residues to the dimethylated form, and as a transcriptional repressor.

Note: This product is for in vitro research use only