Human Krueppel-like factor 15 (KLF15) ELISA Kit

Catalog No: #EK10207

Package Size: #EK10207-1 48T #EK10207-2 96T

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

Description

Product Name	Human Krueppel-like factor 15 (KLF15) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DKFZp779M1320; KKLF; kidney-enriched Kruppel-like factor
Accession No.	Q9UIH9
Uniprot	Q9UIH9
GeneID	28999;
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:0.068 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 KLF15 in samples. An antibody specific for KLF15 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKLF15 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KLF15 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 KLF15 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:KLF15 protein is 84% identical to the rat Klf15 protein, contains 3 zinc finger motifs at its C terminus, N-terminal serine-rich stretches, and a central proline-rich segment. EMSA analysis confirmed that KLF15 and MAZ interact with the GA element of the CLCNKA promoter and showed that KLF15 binds with higher affinity and is a functional competitor of MAZ. Northern blot analysis revealed highest expression of a 2.5-kb KLF15 transcript in liver, followed by heart, skeletal muscle, and kidney. No expression was found in bone marrow or lymphoid tissues. KLF15 was also expressed in cardiac and skeletal muscle interstitial cells and in kidney inner medulla, glomeruli, and cortical interstitium. Immunofluorescence microscopy, however, demonstrated no colocalization of KLF15 with CLCNKA.

Note: This product is for in vitro research use only