Human Krueppel-like factor 5 (KLF5) ELISA Kit

Catalog No: #EK10204

Package Size: #EK10204-1 48T #EK10204-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Krueppel-like factor 5 (KLF5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	BTEB2; CKLF; IKLF; GC box binding protein 2|Kruppel-like factor 5|basic transcription element binding protein 2|colon kruppel-like factor|intestinal-enriched kruppel-like factor|transcription factor
Accession No.	Q13887
Uniprot	Q13887
GeneID	688;
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:0.059 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 KLF5 in samples. An antibody specific for KLF5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKLF5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KLF5 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 KLF5 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Krueppel-like factor 5 is a member of the Kruppel-like factor subfamily of zinc finger proteins. Since the protein localizes to the nucleus and binds the epidermal growth factor response element, it is thought to be a transcription factor.
Klf5, also known as (IKLF) or (Bteb2) has been assigned purely transcriptional activation activity (Fig. 1A) but, similar to Klf4, binds p300 which acetylates the first zinc finger conferring a trans-activating function. Importantly for Klf4 & Klf5, the amino acids that are predicted by the Klevit model to interact with DNA are identical (Fig. 1B and Fig. 2) and the two compete for the same CACCC element found in a wide variety of promoters.

Note: This product is for in vitro research use only