

Mouse Kruppel Like Factor 4, Gut (KLF4) ELISA Kit | KLF4 elisa kit

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CATALOG #
AAA161639

REACTIVITY
Mouse

PRODUCT SYNONYMS

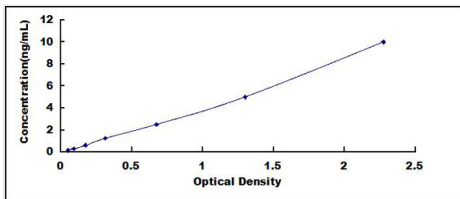
Kruppel Like Factor 4; Gut (KLF4); Mouse Kruppel Like Factor 4; Gut (KLF4) ELISA Kit; KLF4 ELISA kit (Mouse); EZF; GKLF; Gut-Enriched Krüppel-Like Factor; Epithelial zinc finger protein EZF; KLF4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Kruppel Like Factor 4, Gut (KLF4). No significant cross-reactivity or interference between Kruppel Like Factor 4, Gut (KLF4) and analogues was observed. Reactive with Mouse KLF4/Kruppel Like Factor 4, Gut
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Featured Series	SE kit
Detection Range	0.156-10ng/mL
Sensitivity	0.060ng/mL
Sample Size	100uL
Assay Time	3h
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Kruppel Like Factor 4, Gut (KLF4) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Kruppel Like Factor 4, Gut (KLF4) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.

Test Principle	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 Kruppel Like Factor 4, Gut (KLF4). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Kruppel Like Factor 4, Gut (KLF4). 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 Kruppel Like Factor 4, Gut (KLF4), 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 Kruppel Like Factor 4, Gut (KLF4) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Signal transduction, Tumor immunity
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) 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)

Typical Standard Curve for KLF4 ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	171543888
NCBI GeneID	16600
NCBI Accession #	NP_034767.2
NCBI GenBank Nucleotide #	NM_010637
UniProt Accession #	Q60793; P70421; Q3U2D6; Q3URS6; Q78K30; Q9R255
Molecular Weight	51,880 Da
NCBI Official Full Name	Krueppel-like factor 4
NCBI Official Synonym Full Names	Kruppel-like factor 4 (gut)
NCBI Official Symbol	Klf4
NCBI Official Synonym Symbols	EZF; Zie; Gklf
NCBI Protein Information	Krueppel-like factor 4
UniProt Protein Name	Krueppel-like factor 4
UniProt Gene Name	Klf4
UniProt Synonym Gene Names	Ezf; Gklf; Zie

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.