Human Erythroferrone (ERFE) CLIA Kit | ERFE clia kit

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CATALOG #	REACTIVITY
AAA161479	**Human**

PRODUCT SYNONYMS

Erythroferrone (ERFE); Human Erythroferrone (ERFE) CLIA Kit; ERFE CLIA kit (Human); FAM132B; C1QTNF15; CTRP15; Myonectin; Family With Sequence Similarity 132; Member B; Complement C1q tumor necrosis factor-related protein 15; ERFE clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Erythroferrone (ERFE). No significant cross-reactivity or interference between Erythroferrone (ERFE) and analogues was observed. Reactive with Human ERFE/Erythroferrone
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Chemiluminescence
Featured Series	SE kit
Detection Range	13.7-10,000pg/mL
Sensitivity	5.3pg/mL
Sample Size	100uL
Assay Time	2h, 40min
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Erythroferrone (ERFE) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Erythroferrone (ERFE) 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 100ul Substrate Solution. Incubate 10 minutes at 37 degree C 8. Read RLU value immediately.
Test Principle	The microplate provided in this kit has been pre-coated with an antibody specific to Erythroferrone (ERFE). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Erythroferrone (ERFE). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Erythroferrone (ERFE) level in the sample or standard.
Research Area	Signal transduction

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 ERFE CLIA (Sandwich

NCBI AND UNIPROT INFORMATION

NCBI GI #	628601881
NCBI GeneID	151176
NCBI Accession #	NP_001278761.1
NCBI GenBank Nucleotide #	NM_001291832.1
UniProt Accession #	Q4G0M1; W8S2M9
Molecular Weight	37,279 Da
NCBI Official Full Name	erythroferrone
NCBI Official Synonym Full Names	family with sequence similarity 132 member B
NCBI Official Symbol	FAM132B
NCBI Official Synonym Symbols	CTRP15; C1QTNF15
NCBI Protein Information	erythroferrone
UniProt Protein Name	Erythroferrone
UniProt Gene Name	**FAM132B**
UniProt Synonym Gene Names	C1QTNF15; CTRP15; ERFE
UniProt Entry Name	ERFE_HUMAN

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.

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Online datasheet: https://stage.aaabiotech.com/human-clia-kits/erythroferrone-erfe/161479