Human Prolyl 3-hydroxylase 2 (LEPREL1) ELISA Kit

Catalog No: #EK10112

Package Size: #EK10112-1 48T #EK10112-2 96T

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

Description

Product Name	Human Prolyl 3-hydroxylase 2 (LEPREL1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ10718; MLAT4; P3H2; myxoid liposarcoma associated protein 4|prolyl 3-hydroxylase 2|prolyl 3-hydroxylase 3
Accession No.	Q8IVL5
Uniprot	Q8IVL5
GeneID	55214;
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:0.055 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 LEPREL1 in samples. An antibody specific for LEPREL1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLEPREL1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LEPREL1 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 LEPREL1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:LEPREL1 belongs to a family of collagen prolyl hydroxylases required for proper collagen biosynthesis, folding, and assembly. The deduced 708-amino acid protein has an N-terminal signal peptide, 4 tetratricopeptide repeats, 4 CxxxC motifs, a central leucine zipper, a prolyl 4-hydroxylase-alpha domain, which contains an ATP/GTP-binding site, and a C-terminal endoplasmic reticulum (ER) retention motif (KDEL). LEPREL1 also has 3 potential N-glycosylation sites and putative glycosaminoglycan attachment sites. It shares 53% and 45% amino acid identity with LEPRE1 and LEPRE2, respectively. Northern blot analysis detected weak expression of a 3.4-kb transcript in most tissues examined, with higher levels in placenta and kidney. A 6.5-kb transcript was expressed abundantly in skeletal muscle and more weakly in heart.

Note: This product is for in vitro research use only