

Human ATP-dependent zinc metalloprotease YME1L1 (YME1L1) ELISA Kit



Catalog No: #EK5804

Orders: order@signalwayantibody.com

Package Size: #EK5804-1 48T #EK5804-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human ATP-dependent zinc metalloprotease YME1L1 (YME1L1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP11-145E8.2; FTSH; MEG4; PAMP; YME1L; ATP-dependent metalloprotease Ftsh1 homolog YME1-like 1
Accession No.	Q96TA2
Uniprot	Q96TA2
GeneID	10730;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.115 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 YME1L1 in samples. An antibody specific for YME1L1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyYME1L1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for YME1L1 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 YME1L1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**YME1L1 is the human ortholog of yeast mitochondrial AAA metalloprotease, Yme1p. It is localized in the mitochondria and can functionally complement a yme1 disruptant yeast strain. It is proposed that this gene plays a role in mitochondrial protein metabolism and could be involved in mitochondrial pathologies. Two transcript variants encoding different isoforms have been found for this gene.

YME1L1 shares 50% sequence identity with yeast Yme1, 40% identity with yeast Rca1, and 39% identity with yeast Afg3, with highest homology in the central regions of the proteins. Northern blot analysis revealed transcripts of about 2.6 and 4.4 kb in all tissues examined, with greatest abundance in adult heart, skeletal muscle, and pancreas.

Note: This product is for in vitro research use only