Human Peroxisomal membrane protein 2 (PXMP2) ELISA Kit

Catalog No: #EK7923

Package Size: #EK7923-1 48T #EK7923-2 96T

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

Description

Product Name	Human Peroxisomal membrane protein 2 (PXMP2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ54922; PMP22;
Accession No.	Q9NR77
Uniprot	Q9NR77
GeneID	5827;
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:Request Information

Sensitivity:Request Information

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 PXMP2 in samples. An antibody specific for PXMP2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPXMP2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PXMP2 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 PXMP2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PMP22 is a major component of peroxisomal membranes in mammals.It seems to be involved in pore forming activity and may contribute to the unspecific permeability of the organelle membrane. PMP22 is synthesized on free cytosolic ribosomes and then directed to the peroxisome membrane by specific targeting information. Previous studies in rats revealed that PMP22 contains one distinct peroxisomal membrane targeting signal in the amino-terminal cytoplasmic tail. Amino acid sequence alignment of rat and human protein revealed 77% identity including a high conservation of several protein motifs.Human as well as rat PMP22 contains two distinct and nonoverlapping peroxisomal membrane targeting signals, one in the amino-terminal and the other in the carboxyl-terminal protein region.

Note: This product is for in vitro research use only