

Human Prenylcysteine oxidase 1 (PCYOX1) ELISA Kit

Catalog No: #EK8632



Package Size: #EK8632-1 48T #EK8632-2 96T

Orders: order@signalwayantibody.com

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Description

Product Name	Human Prenylcysteine oxidase 1 (PCYOX1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KIAA0908; PCL1; prenylcysteine lyase
Accession No.	Q9UHG3
Uniprot	Q9UHG3
GeneID	51449;
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:0.118 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: Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate PCYOX1 in samples. An antibody specific for PCYOX1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PCYOX1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PCYOX1 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 PCYOX1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: Prenylcysteine is released during the degradation of prenylated proteins. PCYOX1 catalyzes the degradation of prenylcysteine to yield free cysteines and a hydrophobic isoprenoid product.

The deduced 505-amino acid protein contains a predicted signal sequence, several transmembrane regions, and potential N-glycosylation sites. Northern blot analysis detected a 6-kb transcript in heart, kidney, liver, colon, placenta, skeletal muscle, and pancreas, with low expression in brain and no expression in spleen. The 3-prime untranslated region contains several SINEs, including Alu and MIR sequences. The predicted protein has 506 amino acids. RT-PCR ELISA detected high to moderate expression in all adult and fetal human tissues and all specific brain regions tested.

Note: This product is for in vitro research use only