

# Human Peptidoglycan recognition protein L (PGRP-L) ELISA Kit

Catalog No: #EK8538

Package Size: #EK8538-1 48T #EK8538-2 96T

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## Description

Product Name	Human Peptidoglycan recognition protein L (PGRP-L) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	HMFT0141; PGLYRPL; PGRP-L; PGRPL; TAGL-like; tagL; tagL-alpha; tagl-beta; peptidoglycan recognition protein L peptidoglycan recognition protein-like
Accession No.	Q96PD5
Uniprot	Q96PD5
GeneID	114770;
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:0.156-10 ng/mL

Sensitivity:0.039 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 PGLYRP2 in samples. An antibody specific for PGLYRP2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPGLYRP2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PGLYRP2 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 PGLYRP2 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:The deduced 576-amino acid precursor protein contains an N-terminal signal peptide, followed by 2 transmembrane segments and an extracellular C terminus containing PGRP domains III, II, and I. PGRPL shares 40%, 33%, and 32% identity with PGRPS, PGRPI-alpha, and PGRPI-beta, respectively. RNA dot blot analysis detected strong PGRPL expression in adult liver and weak expression in fetal liver. Northern blot analysis detected 2.1- and 0.8-kb transcripts expressed in adult and fetal liver. PCR also detected low expression in transverse colon, lymph nodes, heart, thymus, pancreas, descending colon, stomach, and testis. Transiently transfected COS-7 and human embryonic kidney cells expressed PGRPL as a Triton X-100-soluble membrane protein with an apparent molecular mass of 65 kD.

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Note: This product is for in vitro research use only