

Human Polymeric Immunoglobulin Receptor (PIGR) ELISA Kit | PIGR elisa kit

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CATALOG #
AAA20589

REACTIVITY
Human

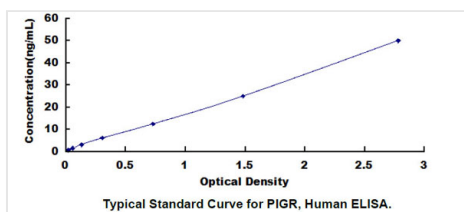
PRODUCT SYNONYMS

Polymeric Immunoglobulin Receptor (PIGR); Human Polymeric Immunoglobulin Receptor (PIGR) ELISA Kit; SC; Secretory Component; Hepatocellular carcinoma-associated protein TB6; PIGR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PIGR. No significant cross-reactivity or interference between PIGR and analogues was observed.
Sequence Length	764
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, urine, saliva, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.78-50ng/mL
Sensitivity	< 0.31ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PIGR were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PIGR were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PIGR elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PIGR. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to PIGR. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PIGR, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of PIGR in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PIGR in human serum, plasma, urine, saliva, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for PIGR elisa kit	Signal transduction; Infection immunity; Immune molecule
References	Structural and functional changes of bioactive proteins in donor human milk treated by vat-pasteurization, retort sterilization, ultra-high-temperature sterilization, freeze-thawing and homogenization; Front Nutr; 2022 Sep 15;9:926814.; PMID: 36185694; Ningjian Liang; Nutrition Program, School of Biological and Population Health Sciences, College of Public Health and Human Sciences, Oregon State University, Corvallis, OR, United States.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31377806
NCBI GeneID	5284
NCBI Accession #	NP_002635.2
NCBI GenBank Nucleotide #	NM_002644.3
UniProt Accession #	P01833; Q68D81; Q8IZY7
Molecular Weight	83,284 Da
NCBI Official Full Name	polymeric immunoglobulin receptor
NCBI Official Synonym Full Names	polymeric immunoglobulin receptor
NCBI Official Symbol	PIGR
NCBI Protein Information	polymeric immunoglobulin receptor
UniProt Protein Name	Polymeric immunoglobulin receptor
UniProt Gene Name	PIGR
UniProt Synonym Gene Names	PIgR; Poly-Ig receptor
UniProt Entry Name	PIGR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/polymeric-immunoglobulin-receptor-pigr/20589>