

Human Polymeric Immunoglobulin Receptor/Membrane Secretory Component ELISA Kit | PIGR elisa kit

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CATALOG # AAA17707	REACTIVITY Human
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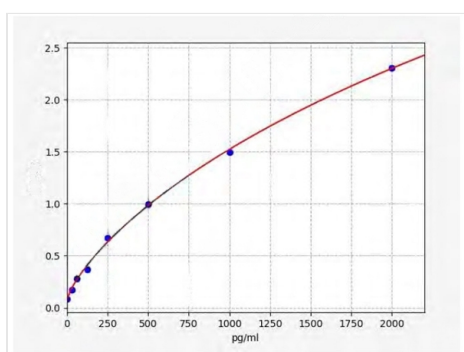
PRODUCT SYNONYMS

Polymeric Immunoglobulin Receptor/Membrane Secretory Component; Human Polymeric Immunoglobulin Receptor/Membrane Secretory Component ELISA Kit; PIGR/SC/Polymeric immunoglobulin receptor/Membrane Secretory Component; PIGR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize PIGR, no obvious cross reaction with other analogues
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PIGR elisa kit	Background: Polymeric immunoglobulin receptors, also designated plgRs, are expressed on the basolateral surface of glandular epithelia and mediate transcellular transport of secretory immunoglobulin polymers across the epithelium. During transcellular transport of these Ig polymers, plgR undergoes proteolytic cleavage to generate a fragment called secretory component (SC), polymeric immunoglobulin receptor or poly-Ig receptor. When immunoglobulin polymers associate with SC, they become resistant to enzymatic degradation during the transcytosis process. SC and the plgR are crucial for proper mucosal immunity where they represent a molecular chaperone for polymeric Igs to remain intact and enter into body fluids. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti PIGR antibody was pre-coated onto the 96-well plate. The biotin conjugated anti PIGR antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with PIGR conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of PIGR in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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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://stage.aaabiotech.com/pigr-human-elisa-kits/polymeric-immunoglobulin-receptor-membrane-secretory-component/17707>