

## Recombinant Human PIGR Protein (365 Ser/Gly, His Tag)

Catalog No. PKSH031844

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

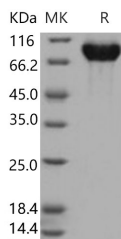
### Description

<b>Synonyms</b>	Polymeric Immunoglobulin Receptor;PIgR;Poly-Ig Receptor;Hepatocellular Carcinoma-Associated Protein TB6;PIGR
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Arg 638, 365 Ser/Gly
<b>Accession</b>	NP_002635.2
<b>Calculated Molecular Weight</b>	69.0 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Immobilized rhuman IgM at 2 µg/ml (100 µl/well) can bind biotinylated PIGR with a linear range of 0.94-15 ng/ml. 2. When human human IgM is immobilized at 2 µg/ml (100 µl/well), PIGR inhibits 50% binding of biotinylated PIGR (0.062 µg/ml) at the concentration range of 0.03-20 µg/ml.

### Properties

<b>Purity</b>	> 97 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 97 % as determined by reducing SDS-PAGE.

### For Research Use Only

## Background

Polymeric immunoglobulin receptor, also known as PIGR, is a member of the immunoglobulin superfamily and a Fc receptor. The ectodomain of this receptor consists of five units with homology to the variable units of immunoglobulins and a transmembrane region, which also has some homology to certain immunoglobulin variable regions. PIGR is expressed on several glandular epithelia including those of liver and breast. The deduced amino-acid sequence has a length of 764 residues and shows an overall similarity of 56% and 64% with the rabbit and rat counterpart. PIGR mediates transcellular transport of polymeric immunoglobulin molecules, and thus facilitates the secretion of IgA and IgM. During this process, a cleavage occurs that separates the extracellular (known as the secretory component) from the transmembrane segment of PIGR.

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