

# Recombinant Mouse Polymeric Immunoglobulin Receptor/PIGR Protein

Catalog No.: RP03555

## Sequence Information

**Species**      **Gene ID**  
Mouse            18703

**Swiss Prot**    **Tags**  
O70570          C-His

### Synonyms

Pigr, Polymeric immunoglobulin receptor, PlgR, Poly-Ig receptor, Cleaved into: Secretory component

## Product Information

**Source**            **Purification**  
HEK293 Cells    > 97 % as determined by SDS-PAGE.

**Calculated MW** **Observed MW**  
70.8 kDa            90-100 kDa

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Formulation

Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## 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.

## Basic Information

### Description

Recombinant Mouse Polymeric immunoglobulin receptor/PIGR Protein is produced by HEK293 cells system. The target protein is expressed with sequence (Met 1-Lys 645) of Mouse Polymeric immunoglobulin receptor/PIGR (Accession #NP\_035212.2) fused with His at the C-Terminus.

### Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant mouse PIGR at 5 µg/ml (100 µl/well) can bind mouse IgM with a linear range of 0.156-10 µg/ml.

### Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Contact

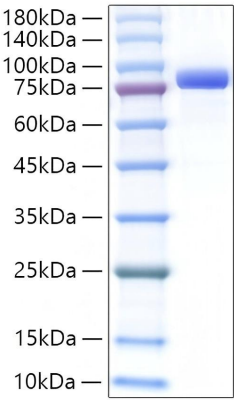
☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

# Validation Data

---



Recombinant Mouse Polymeric Immunoglobulin Receptor/PIGR Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.