

**Anti-PIGR Picoband Antibody**  
Catalog # ABO12462

**Specification**

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**Anti-PIGR Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P01833</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Polymeric immunoglobulin receptor(PIGR) detection. Tested with WB in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-PIGR Picoband Antibody - Additional Information**

**Gene ID** 5284

**Other Names**

Polymeric immunoglobulin receptor, PIgR, Poly-Ig receptor, Hepatocellular carcinoma-associated protein TB6, Secretory component, PIGR

**Calculated MW**

83284 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Cell membrane; Single-pass type I membrane protein.

**Protein Name**

Polymeric immunoglobulin receptor

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human PIGR (579-613aa DAAPDEKVLDSGFREIENKAIQDPRLFAEEKAVAD), different from the related rat sequence by eighteen amino acids.

**Purification**

Immunogen affinity purified.

### Cross Reactivity

No cross reactivity with other proteins.

### Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

## Anti-PIGR Picoband Antibody - Protein Information

### Name PIGR

### Function

[Polymeric immunoglobulin receptor]: Mediates selective transcytosis of polymeric IgA and IgM across mucosal epithelial cells. Binds polymeric IgA and IgM at the basolateral surface of epithelial cells. The complex is then transported across the cell to be secreted at the apical surface. During this process, a cleavage occurs that separates the extracellular (known as the secretory component) from the transmembrane segment.

### Cellular Location

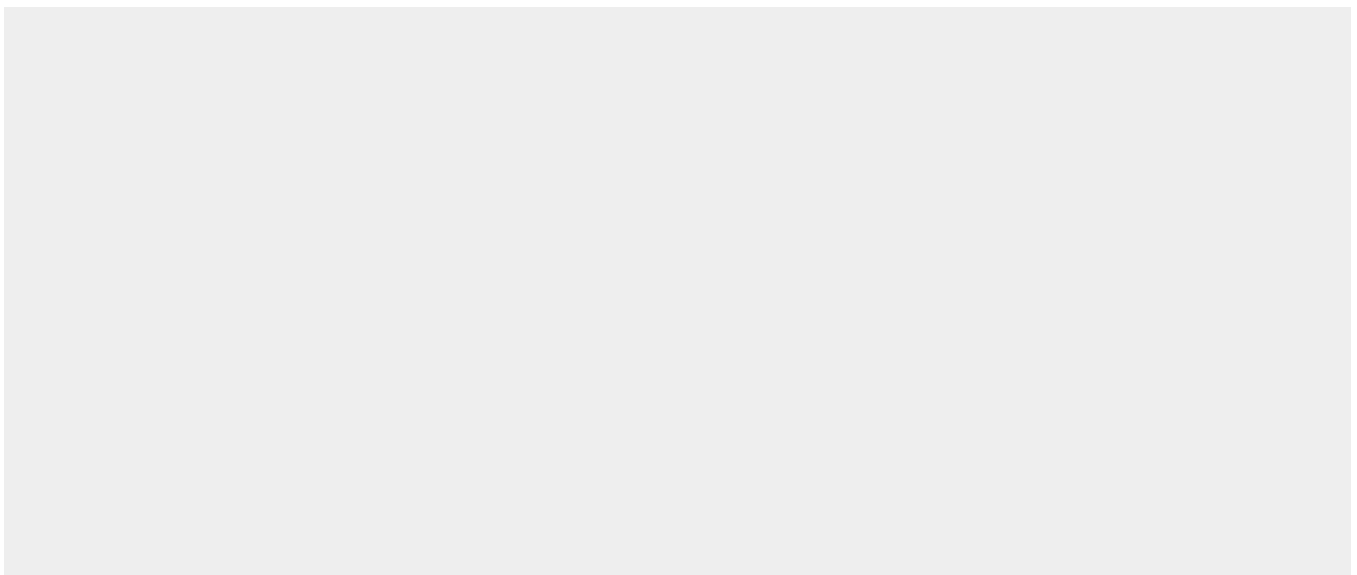
[Polymeric immunoglobulin receptor]: Cell membrane; Single-pass type I membrane protein

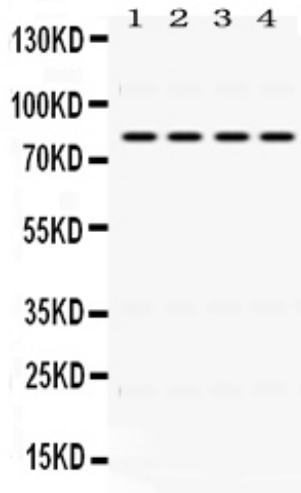
## Anti-PIGR Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-PIGR Picoband Antibody - Images





Anti- PIGR Picoband antibody, ABO12462, Western blotting All lanes: Anti PIGR (ABO12462) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: SKOV Whole Cell Lysate at 40ug Lane 3: MCF-7 Whole Cell Lysate at 40ug Lane 4: SW620 Whole Cell Lysate at 40ug Predicted bind size: 83KD Observed bind size: 83KD

#### **Anti-PIGR Picoband Antibody - Background**

Polymeric immunoglobulin receptor is a protein that in humans is encoded by the PIGR gene. It is a Fc receptor which facilitates the secretion of the soluble polymeric isoforms of immunoglobulin A and immunoglobulin M. This gene is mapped to 1q31-q41. The encoded poly-Ig receptor binds polymeric immunoglobulin molecules at the basolateral surface of epithelial cells; the complex is then transported across the cell to be secreted at the apical surface. A significant association was found between immunoglobulin A nephropathy and several SNPs in this gene.