

Anti-PIGR Antibody Picoband®

Catalog Number: PB9776

About PIGR

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.

Overview

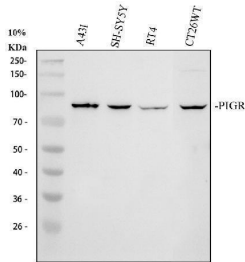
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| Product Name | Anti-PIGR Antibody Picoband® |
| Reactive Species | Human, Mouse |
| Description | Boster Bio Anti-PIGR Antibody Picoband® catalog # PB9776. Tested in Flow Cytometry, WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application | Flow Cytometry, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ . |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | P01833 |

Technical Details

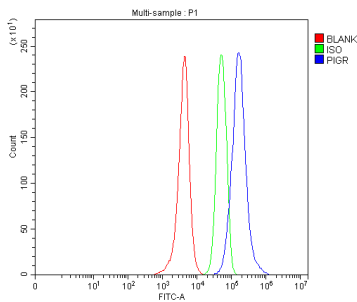
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| Immunogen | A synthetic peptide corresponding to a sequence at the C-terminus of human PIGR, different from the related rat sequence by eighteen amino acids. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |

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| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.1-0.5ug/ml, Human Flow Cytometry(Fixed), 1-3 ug/1x10 ⁶ cells, Human |

Anti-PIGR Antibody Picoband® (PB9776) Images



Western blot analysis of PIGR using anti-PIGR antibody (PB9776). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A431 whole cell lysates, Lane 2: human SH-SY5Y whole cell lysates, Lane 3: human RT4 whole cell lysates, Lane 4: human CT26WT whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PIGR antigen affinity purified polyclonal antibody (Catalog # PB9776) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for PIGR at approximately 85 kDa. The expected band size for PIGR is at 85 kDa.



Flow Cytometry analysis of SH-SY5Y cells using anti-PIGR antibody (PB9776). Overlay histogram showing SH-SY5Y cells stained with PB9776 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-PIGR Antibody (PB9776, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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Anti-PIGR Antibody

For Research Use Only. Not for use in diagnostic procedures.