

Active Recombinant Human PIgR Protein, His-tagged

Cat. No. PIgR-013H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human pIgR, fused to His-tag at C terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect cells
Description	This gene is a member of the immunoglobulin superfamily. 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.
Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Human IgM. The ED50 range ≤ 10 $\mu\text{g/mL}$.
Molecular Mass	68.9 kDa
AA Sequence	KSPIFGPEEVNSVEGNSVSITCYYPPTSVNRHTRKYWCRQGARGGCITLISSEGYVS SKYAGRANLTNFPENGTFVVNIAQLSQDDSGRYKCGLGINSRGLSFDVSLEVSQGP GLLNDTKVYTVDLGRTVTINCPFKTENAQKRKSLYKQIGLYPVLVIDSSGYVNPNYTG RIRLDIQGTGQLLFSVINQLRLSDAGQYLCQAGDDSNSNKKNADLQVLKPEPELVY EDLRGSVTFHCALGPEVANVAKFLCRQSSGENCDVVVNTLGKRAPAFEGRILLNPQ

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DKDGSFSVVITGLRKEDAGRYLCGAHSDGQLQEGSPIQAWQLFVNEESTIPRSPTV
 VKGVAGGSAVLCPYNRKESKSIKYWCLWEGAQNGRCPLLVDSEGWVKAQYEGR
 LSLLEEPGNGTFTVILNQLTSRDAGFYWCLTNGDTLWRTTVEIKIIEGEPNLKVPGNV
 TAVLGETLKVPCFPCFSSYEKYWCKWNNTGCQALPSQDEGPSKAFVNCDENS
 LVSLTLNLVTRADEGWYWCGVKQGHFYGETAAVYVAVEERKAAGSRDVS
 LAKADA
 APDEKVLDSGFREIENKAIQDPRLFAEEKAVADTRDQADGSRASVDSGSSEEQGG
 SR

Endotoxin < 1 EU/μg of protein (determined by LAL method)

Purity > 95% by SDS-PAGE

Applications SDS-PAGE, Bioactivity

Storage Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -92 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/mL (determined by Absorbance at 280nm)

Storage Buffer Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name [PIGR polymeric immunoglobulin receptor \[Homo sapiens \(human\) \]](#)

Official Symbol [PIGR](#)

Synonyms PIGR; polymeric immunoglobulin receptor; polymeric immunoglobulin receptor; hepatocellular carcinoma associated protein TB6; poly-Ig receptor

Gene ID [5284](#)

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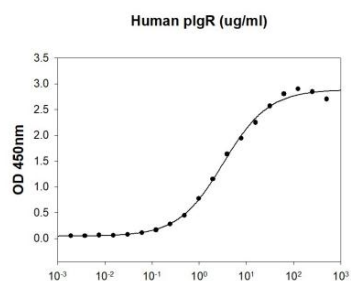
mRNA Refseq [NM_002644](#)

Protein Refseq [NP_002635](#)

MIM [173880](#)

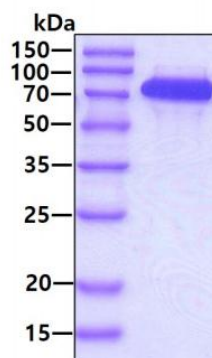
UniProt ID [P01833](#)

Biological Activity



Human IgM is coated at 2 µg/mL (100 µL/well) can bind Human plgR. The ED50 range ≤10 µg/mL.

SDS-PAGE



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3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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