

# Recombinant Human plgR Protein

**Cat. No.** plgR-831H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human plgR protein without tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 764                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | 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.                                                           |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 68.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MLLFVLTCLLAVFPAISTKSPIFGPEEVNSVEGNSVSITCYYPPTSVNRHTRKYWCRQ<br>GARGGCITLISSEG YVSSKYAGRANLTNFPENGTFVFNIAQLSQDDSGRYKCGLGIN<br>SRGLSFDVSLEVSQGPGLLNDTKVYTVDLGRTVTINCPFKTENAQKRKSLYKQIGLY<br>PVLVIDSSGYVNPNYTGRIRLDIQGTGQLLFSVVINQLRLSDAGQYLCQAGDDSNSN<br>KKNADLQVLKPEPELVYEDLRGSVTFHCALGPEVANVAKFLCRQSSGENCDVVVNT<br>LGKRAPAFEGRILLNPQDKDGSFSVVITGLRKEDAGRYLCGAHSDGQLQEGSPIQA<br>WQLFVNEESTIPRSPTVVKG VAGGSVAVLCPYNRKESKSIKYWCLWEGAQNRCRP |

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LLVDSEGWVKAQYEGRLSLLEPGNGTFTVILNQLTSRDAGFYWCLTNGDTLWRTT  
 VEIKIIEGEPNLKVPGNVTAVLGETLKVPCHFPCKFSSYEKYWCKWNNTGCQALPSQ  
 DEGPSKAFVNCDENSRLVSLTLNLVTRADEGWYWCGVKQGHFYGETAAVYVAVEE  
 RKAAGSRDVS LAKADAAPDEKVLDSGFREIENKAIQDPRLFAEEKAVADTRDQADG  
 SRASVDSGSSEEQGGSSRALVSTLVPLGLVLAVGAVAVGVARARHRKNVDRVSIRS  
 YRTDISMSDFENSREFGANDNMGASSITQETSLGGKEEFVATTESTTETKEPKKAKR  
 SSKEEAEMAYKDFLLQSSTVAAEAQDGPQEA

|                       |                                                                                                                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 98%                                                                                                                                                                                                                                                                                    |
| <b>Applications</b>   | Migration Assay; WB; ELISA;                                                                                                                                                                                                                                                              |
| <b>Stability</b>      | This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).<br>After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.                                                                                |
| <b>Storage</b>        | At -20 centigrade.                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>  | 1 mg/mL                                                                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b> | PBS (pH 7.4-7.5). Sterile-filtered colorless solution.                                                                                                                                                                                                                                   |
| <b>Reconstitution</b> | Reconstitute in sterile distilled H <sub>2</sub> O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance. |

## GENE INFORMATION

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

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|                        |                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | <a href="#">pIgR</a>                                                                                                                                                                         |
| <b>Synonyms</b>        | PIGR; polymeric immunoglobulin receptor; poly-Ig receptor; hepatocellular carcinoma associated protein TB6; hepatocellular carcinoma-associated protein TB6; FLJ22667; MGC125361; MGC125362; |
| <b>Gene ID</b>         | <a href="#">5284</a>                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | <a href="#">NM_002644</a>                                                                                                                                                                    |
| <b>Protein Refseq</b>  | <a href="#">NP_002635</a>                                                                                                                                                                    |
| <b>MIM</b>             | <a href="#">173880</a>                                                                                                                                                                       |
| <b>UniProt ID</b>      | <a href="#">P01833</a>                                                                                                                                                                       |

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