

plgR active protein

Recombinant human plgR protein

CATALOG # AAA48381	HOST Baculovirus	APPLICATIONS SDS-Page
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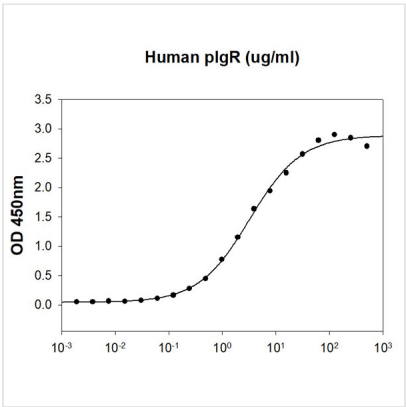
PRODUCT SYNONYMS

plgR; Recombinant human plgR protein; Polymeric immunoglobulin receptor; PIGR; PlgR; Poly-Ig receptor; Hepatocellular carcinoma-associated protein TB6; polymeric immunoglobulin receptor precursor; plgR active protein

PRODUCT SPECIFICATIONS

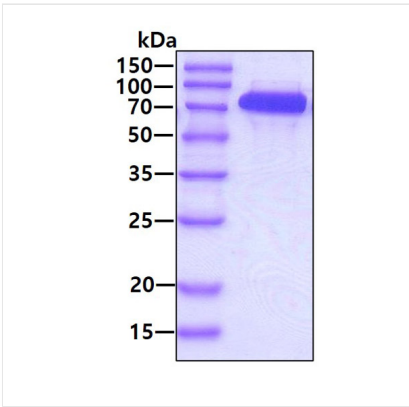
Host	Baculovirus
Purity/Purification	>95% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	1mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	19-638aa
Sequence	KSPIF GPEEVNSVEG NSVSITCYYP PTSVNRHTRK YWCRQGARGG CITLISSEGY VSSKYAGRAN LTNFPENGTF VVNIAQLSQD DSGRYKCLG INSRGLSFDV SLEVSQGPGL LNDTKVYTVD LGRTVTINCP FKTENAQRK SLYKQIGLYP VLVIDSSGYV NPNYTGRI RL DIQGTGQLLF SVVINQLRLS DAGQYLCQAG DDSNSNKKNA DLQVLKPEPE LVYEDLRGSV TFHCALGPEV ANVAKFLCRQ SSGENCDEVV NTLGKRAPAF EGRILLNPQD KDGSFSVVIT GLRKEDAGRY LCGAHSQGQL QEGSPIQAWQ LFNNEESTIP RSPTVVKGVA GGSVAVLC PY NRKESKSIKY WCLWEGAQNG RCPLLVDSEG WVKAYEGRL SLLEPGNGT FTVILNQLTS RDAGFYWCLT NGDTLWRTTV EIKIIEGEPN LKVPGNVTAV LGETLKVPCH FPCKFSSYEK YWCKWNNTGC QALPSQDEGP SKAFVNC DEN SRLVSLTLNL VTRADEGWYW CGVKQGHFYG ETAAVYVAVE ERKAAGSRDV SLAKADAAPD EKVLDSGFRE IENKAIQDPR LFAEEKAVAD TRDQADGSRA SVDSGSSEEQ GGSSR
Applicable Applications for plgR active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	His-Tag
Predicted N-term	Ala
Bioactivity	Measured by its binding ability in a functional ELISA with Human IgM. The ED50 range <=10ug/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Human IgM is coated at 2 ug/ml (100 ul/well) can bind Human plgR. The ED50 range



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for plgR active protein	plgR, also known as polymeric immunoglobulin receptor, is responsible for transcytosis of soluble dimeric IgAs and immune. This protein 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, the cleavage occurs that separates the extracellular from the transmembrane segment. PlgR expression is under the strong regulation of cytokines, hormones, and pathogenic stimuli. The expression of plgR is critically regulated by the pro-inflammatory cytokines, such as IL-1, IL-4, TNF-alpha, and IFN-gamma. Recombinant human plgR, fused to Histag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for plgR active protein	Immunology; Proteins
References	Giffroy D, et al, (2001) Scand J Immunol. 53:56-64. Kortum AN, et al, (2014) Immunogenetics. 66:267-279. Yue X, et al, (2017) Hepatolgy. 65:1948-1962.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31377806
NCBI GeneID	5284
NCBI Accession #	NP_002635
NCBI GenBank Nucleotide #	NM_002644
UniProt Accession #	P01833; Q68D81; Q8IZY7
Molecular Weight	83,284 Da
NCBI Official Full Name	polymeric immunoglobulin receptor
NCBI Official Synonym Full Names	polymeric immunoglobulin receptor
NCBI Official Symbol	PIGR
NCBI Protein Information	polymeric immunoglobulin receptor; hepatocellular carcinoma associated protein TB6; hepatocellular carcinoma-associated protein TB6; poly-Ig receptor
UniProt Protein Name	Polymeric immunoglobulin receptor
UniProt Gene Name	PIGR
UniProt Synonym Gene Names	PlgR; Poly-Ig receptor

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/baculovirus-active-protein/pigr/48381>