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Recombinant human plgR protein

Catalog Number: ATGP3978

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-638aa

UniProt No.

P01833

NCBI Accession No.

NP 002635

Alternative Names

Polymeric immunoglobulin receptor, PIGR, PlgR, Poly-lg receptor, Hepatocellular carcinoma-associated protein TB6, polymeric immunoglobulin receptor precursor

PRODUCT SPECIFICATION

Molecular Weight

68.9kDa (629aa)

Concentration

1mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS - PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by its binding ability in a functional ELISA with Human IgM. The ED50 range ≤10 ug/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND



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Description

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- α , and IFN- γ . Recombinant human plgR, fused to Histag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

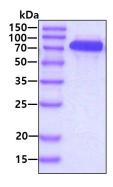
<ADL>KSPIFGP EEVNSVEGNS VSITCYYPPT SVNRHTRKYW CRQGARGGCI TLISSEGYVS SKYAGRANLT NFPENGTFVV NIAQLSQDDS GRYKCGLGIN SRGLSFDVSL EVSQGPGLLN DTKVYTVDLG RTVTINCPFK TENAQKRKSL YKQIGLYPVL VIDSSGYVNP NYTGRIRLDI QGTGQLLFSV VINQLRLSDA GQYLCQAGDD SNSNKKNADL QVLKPEPELV YEDLRGSVTF HCALGPEVAN VAKFLCRQSS GENCDVVVNT LGKRAPAFEG RILLNPQDKD GSFSVVITGL RKEDAGRYLC GAHSDGQLQE GSPIQAWQLF VNEESTIPRS PTVVKGVAGG SVAVLCPYNR KESKSIKYWC LWEGAQNGRC PLLVDSEGWV KAQYEGRLSL LEEPGNGTFT VILNQLTSRD AGFYWCLTNG DTLWRTTVEI KIIEGEPNLK VPGNVTAVLG ETLKVPCHFP CKFSSYEKYW CKWNNTGCQA LPSQDEGPSK AFVNCDENSR LVSLTLNLVT RADEGWYWCG VKQGHFYGET AAVYVAVEER KAAGSRDVSL AKADAAPDEK VLDSGFREIE NKAIQDPRLF AEEKAVADTR DQADGSRASV DSGSSEEQGG SSR<HHHHHH>

General 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) Hepatolgoy. 65:1948-1962.

DATA

SDS-PAGE



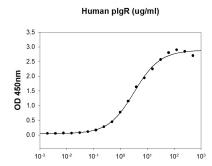
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity

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Human IgM is coated at 2 ug/ml (100 ul/well) can bind Human plgR. The ED50 range \leq 10 ug/ml.

