Proteins



Product Data Sheet

PIGR Protein, Human (HEK293, His)

Cat. No.: HY-P71065

Synonyms: Polymeric Immunoglobulin Receptor; PIgR; Poly-Ig Receptor; Hepatocellular Carcinoma-

Associated Protein TB6; PIGR

Species: Human Source: HEK293

P01833 (K19-R638) Accession:

5284 Gene ID:

Molecular Weight: Approximately 88.0 kDa

PROPERTIES

AA Sequence	KSPIFGPEEV NSVEGNSVSI TCYYPPTSVN RHTRKYWCRQ GARGGCITLI SSEGYVSSKY AGRANLTNFP ENGTFVVNIA QLSQDDSGRY KCGLGINSRG LSFDVSLEVS QGPGLLNDTK VYTVDLGRTV TINCPFKTEN AQKRKSLYKQ IGLYPVLVID SSGYVNPNYT GRIRLDIQGT GQLLFSVVIN QLRLSDAGQY LCQAGDDSNS NKKNADLQVL KPEPELVYED LRGSVTFHCA LGPEVANVAK FLCRQSSGEN CDVVVNTLGK RAPAFEGRIL LNPQDKDGSF SVVITGLRKE DAGRYLCGAH SDGQLQEGSP IQAWQLFVNE ESTIPRSPTV VKGVAGGSVA VLCPYNRKES KSIKYWCLWE GAQNGRCPLL VDSEGWVKAQ YEGRLSLLEE PGNGTFTVIL NQLTSRDAGF YWCLTNGDTL WRTTVEIKII EGEPNLKVPG NVTAVLGETL KVPCHFPCKF SSYEKYWCKW NNTGCQALPS QDEGPSKAFV NCDENSRLVS LTLNLVTRAD EGWYWCGVKQ GHFYGETAAV YVAVEERKAA GSRDVSLAKA DAAPDEKVLD SGFREIENKA IQDPRLFAEE KAVADTRDQA
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH $_2$ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

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DESCRIPTION

Background

PIGR Protein assumes a crucial role in mediating the selective transcytosis of polymeric IgA and IgM across mucosal epithelial cells, orchestrating a process essential for mucosal immunity. The protein binds polymeric IgA and IgM at the basolateral surface of epithelial cells, forming a complex that is subsequently transported across the cell and secreted at the apical surface. During this transit, a cleavage event occurs, separating the extracellular component, known as the secretory component, from the transmembrane segment. PIGR, through its N-linked glycans, ensures the anchoring of secretory IgA (sIgA) molecules to the mucus lining the epithelial surface, a critical mechanism for neutralizing extracellular pathogens. In its free form, PIGR may also function as a non-specific microbial scavenger, playing a role in preventing pathogen interaction with epithelial cells and contributing to the broader defense against potential infections.

Caution: Product has not been fully validated for medical applications. For research use only.

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