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Datasheet for ABIN1097331

PIGR Protein (AA 19-638) (His tag)

Overview

Quantity:	50 µg
Target:	PIGR
Protein Characteristics:	AA 19-638
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIGR protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Polymeric Immunoglobulin Receptor/PIgR (C-6His)
Sequence:	<p>KSPIFGPEEV NSVEGNSVSI TCYYPPTSVN RHTRKYWCRQ GARGGCITLI SSEGYVSSKY AGRANLTNFP ENGTFVVNIA QLSQDDSGRY KCGLGINSRG LSFVDSLEVS QGPGLLNDTK VYTVDLGRTV TINC PFKTEN AQKRKSLYKQ IGLYPVLVID SSGYVNPNYT GRIRLDIQGT GQLLFSVIN QLRLSDAGQY LCQAGDDSNS NKKNADLQVL KPEPELVYED LRGSVTFHCA LGPEVANVAK FLCRQSSGEN CDVVVNTLGK RAPAFEGRIL LNPQDKDGSF SVVITGLRKE DAGRYLCGAH SDGQLQEGSP IQAWQLFVNE ESTIPRSPTV VKGVAGGSVA VLCYPNRKES KSIKYWCLWE GAQNGRCPLL VDSEGWVKAQ YEGRLSLEE PGNGTFTVIL NQLTSRDAGF YWCLTNGDTL WRTTVEIKII EGEPNLKVPG NVTAVLGETL KVPCHFPCFK SSYEKYWCKW NNTGCQALPS QDEGPSKAFV NCDENSRLVS LTLNLVTRAD EGWYWCQVKQ GHFYGETAAV YVAVEERKAA GSRDVSLAKA DAAPDEKVLD SGFREIENKA IQDPRLFAEE KAVADTRDQA DGSRASVDSG SSEEQGGSSR VDHHHHHH</p>
Characteristics:	Recombinant Human Polymeric Immunoglobulin Receptor/PIgR is produced with our

Product Details

	mammalian expression system in human cells. The target protein is expressed with sequence (Lys19 Arg638) of Human PIGR fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	PIGR
Alternative Name:	pigr (PIGR Products)
Sub Type:	Fusionprotein
Background:	<p>The human Polymeric Immunoglobulin Receptor (pIgR) is a 100 kDa type I transmembrane glycoprotein. Its precursor is 764 amino acids. It contains an 18 amino acid signal sequence, a 620 amino acid extracellular region, a 23 amino acid transmembrane fragment, and a 103 amino acid cytoplasmic domain. pIgR is synthesized by secretory epithelial cells with five Ig-like domains in extracellular region, and transfer to the basolateral plasma membrane. For IgA and IgM polymers, in addition to alpha-heavy chains and light Ig chains, a short polypeptide named joining chain (J chain) is also contained and required. pIgR can bind larger polymers of IgA (pIgA) and pentameric IgM as a carrier that transports IgA and IgM across epithelium. The receptor-ligand complexes are endocytosed and transcytosed to the apical surface, then proteolytic cleavage of the sixth extracellular domain of pIgR and generate secretory IgA (SIgA), the pIgR fragment is referred to as secretory component (SC). SIgA is a important component of the mucosal immune system. SC is anti-microbial properties and protects SIgA from proteolytic degradation</p> <p>Alternative Names: Polymeric Immunoglobulin Receptor, PIgR, Poly-Ig Receptor, Hepatocellular Carcinoma-Associated Protein TB6, PIGR</p>
Molecular Weight:	68.88 kDa
UniProt:	P01833

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Expiry Date:	3 months