Datasheet for ABIN7196162

IGJ Protein (His tag)

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Overview

Quantity:	100 µg
Target:	IGJ
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IGJ protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human IGJ/Immunoglobulin J Chain Protein (His Tag)
Sequence:	Gln 23-Asp 159
Characteristics:	A DNA sequence encoding the mature form of human IGJ (NP_653247.1) (Gln 23-Asp 159) was fused with a polyhistidine tag at the C-terminus and a pelB singnal peptide at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.

Target Details

Target:	IGJ
Alternative Name:	IGJ/Immunoglobulin J Chain (IGJ Products)
Background:	Background: Immunoglobulin J chain, also known as IGJ and IGCJ, is a secreted polypeptide which is the first immunoglobulin-related polypeptide expressed during the embryogenesis and differentiation of B cells in the fetal liver. The joining Immunoglobulin J chain is a small polypeptide, expressed by mucosal and glandular plasma cells, which regulates polymer

Target Details

	formation of immunoglobulin (Ig)A and IgM. Immunoglobulin J chain / IGJ serves to link two monomer units of either IgM or IgA. In the case of IgM, the J chain-joined dimer is a nucleating unit for the IgM pentamer, and in the case of IgA it induces larger polymers. Immunoglobulin J chain / IGJ also help to bind these immunoglobulins to secretory component. J-chain incorporation into polymeric IgA (pIgA, mainly dimers) and pentameric IgM endows these antibodies with several salient features. Immunoglobulin J chain / IGJ is involved in creating the binding site for pIgR / SC in the Ig polymers, not only by determining the polymeric quaternary structure but apparently also by interacting directly with the receptor protein. Both the immunoglobulin J chain / IGJ and the pIgR/SC are key proteins in secretory immunity. Synonym: IGCJ,JCH
Molecular Weight:	17 kDa
NCBI Accession:	NP_653247

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.