

Recombinant Full-length Human IGL Protein, GST tagged

Cat. No. IGL-19HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IGL full-length ORF (AAH89414.1, 1 a.a. - 232 a.a.) recombinant protein with GST-tag at N-terminal was expressed in Wheat germ cell free in vitro.
Species	Human
Source	Wheat germ cell free in vitro
ProteinLength	1-232 aa
Description	Immunoglobulins recognize foreign antigens and initiate immune responses such as phagocytosis and the complement system. Each immunoglobulin molecule consists of two identical heavy chains and two identical light chains. There are two classes of light chains, kappa and lambda. This region represents the germline organization of the lambda light chain locus. The locus includes V (variable), J (joining), and C (constant) segments. During B cell development, a recombination event at the DNA level joins a single V segment with a J segment; the C segment is later joined by splicing at the RNA level. Recombination of many different V segments with several J segments provides a wide range of antigen recognition. Additional diversity is attained by junctional diversity, resulting from the random additional of nucleotides by terminal deoxynucleotidyltransferase, and by somatic hypermutation, which occurs during B cell maturation in the spleen and lymph nodes. Several V segments and three C segments are known to be incapable of encoding a protein and are considered pseudogenes. The locus also includes several non-immunoglobulin genes, many of which are pseudogenes or are predicted by automated computational analysis or

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	homology to other species.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.
Molecular Mass	51.2 kDa
AASequence	MAWTPLLLPLLTFCVSEASYDLTQPPSVSVSPGQTARITCSGDALPRKYAFWYQQ KSGQAPVLVIYEDSKRPSGIPERFSGSSSGTMTLTISGAQVEDEGDYYCYSTDIG YPVFGGGTKVTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYPGAVTVAWKA DSSPVKAGVETTTTPSKQSNNKYAASSYLSLTPEQWRSHKSYSCQVTHEGSTVEKTV APTECS
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.

GENE INFORMATION

Gene Name	IGL immunoglobulin lambda locus [Homo sapiens (human)]
Official Symbol	IGL
Synonyms	IGL; immunoglobulin lambda locus; IGL@; IGLC6; ig lambda-6 chain C region; immunoglobulin lambda gene cluster

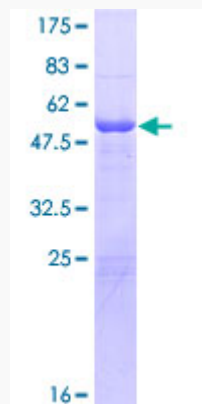
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Gene ID 3535

SDS-PAGE and WB



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