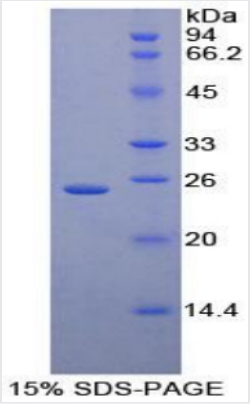
Immunoglobulin Associated Alpha (IGA) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Immunoglobulin Associated Alpha (Iga), Recombinant Protein
Full Product Name	Recombinant Immunoglobulin Associated Alpha (Iga)
Product Gene Name	Iga recombinant protein
Sequence	The target protein is fused with two N-terminal Tags, His-tag and T7-tag, its sequence is listed below. MGSSHHHHHH SSGLVPRGSH MASMTGGQQM GRGSEF- HKVPA SLMVSLGEDA HFQCPHNSSN NANVTWWRVL HGNYTWPPEF LGPGEDPNGT LIIQNVNKSH GGIYVCRVQE GNESYQQSCG TYLRVRQPPP RPFLDMGEGT KNRIITAEGI ILLFCAVVPG TLLLFRKRWQ NEKLGLDAGD EYEDENLYEG LNLDDCSMYE DISRGLQGTY QDVGSLNIG
Host	E Coli
Form/Format	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Purity/Purification	> 95%
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test,that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. (Referring from China Biological Products Standard,which was calculated by the Arrhenius equation.) The loss of this protein is lessthan 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: Iga (MBS2013313) Immunogen: Iga (MBS2018327)
Matching Pairs	APC-CY7 Conjugated Antibody: Iga (MBS2054582) Immunogen: Iga (MBS2018327)
Matching Pairs	PE Conjugated Antibody: Iga (MBS2054583) Immunogen: Iga (MBS2018327)
Matching Pairs	APC Conjugated Antibody: Iga (MBS2054584) Immunogen: Iga (MBS2018327)
Matching Pairs	Cy3 Conjugated Antibody: Iga (MBS2054585) Immunogen: Iga (MBS2018327)
Matching Pairs	FITC Conjugated Antibody: Iga (MBS2054586) Immunogen: Iga (MBS2018327)
Matching Pairs	HRP Conjugated Antibody: Iga (MBS2054587) Immunogen: Iga (MBS2018327)
Matching Pairs	Biotin Conjugated Antibody: Iga (MBS2093224) Immunogen: Iga (MBS2018327)
Molecular Weight	24.4kDa
Chromosome Location	Chromosome: 19; NC_000019.9 (42381190..42385439). Location: 19q13.2
OMIM	112205
3D Structure	ModBase 3D Structure for P11912
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.

Organism	Homo sapiens (Human)
Expression System	Prokaryotic expression
Residues	His36~Gly219 (Accession # P11912) with two N-terminal Tags, His-tag and T7-tag
Subcellular Location	Cell membrane; Single-pass type I membrane protein
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Predicted Isoelectric Point	5.8
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for Iga recombinant protein	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Related Product Information for Iga recombinant protein	MBS2018327 is a recombinant protein targeting Iga. Also known as Recombinant Immunoglobulin Associated Alpha (Iga). Host: E Coli.
Other Notes	Small volumes of Iga recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of Iga recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Iga. It may not necessarily be applicable to this product.

NCBI GI #	4502685
NCBI GeneID	973
NCBI Accession #	NP_001774.1
UniProt Primary Accession #	P11912
UniProt Secondary Accession #	Q53FB8; A0N775
UniProt Related Accession #	P11912
GenBank Nucleotide #	NM_001783.3
NCBI Official Full Name	B-cell antigen receptor complex-associated protein alpha chain isoform 1
NCBI Official Synonym Full Names	CD79a molecule, immunoglobulin-associated alpha
NCBI Official Symbol	CD79A
NCBI Official Synonym Symbols	IGA; MB-1

UniProt Protein Name	B-cell antigen receptor complex-associated protein alpha chain
UniProt Synonym Protein Names	Ig-alpha; MB-1 membrane glycoprotein; Membrane-bound immunoglobulin-associated protein; Surface IgM-associated protein
Protein Family	IgA-specific serine endopeptidase autotransporter
UniProt Gene Name	CD79A
UniProt Synonym Gene Names	IGA; MB1
UniProt Entry Name	CD79A_HUMAN
NCBI Protein Information	B-cell antigen receptor complex-associated protein alpha chain; ig-alpha; MB-1 membrane glycoprotein; surface IgM-associated protein; CD79a antigen (immunoglobulin-associated alpha); membrane-bound immunoglobulin-associated protein
NCBI Summary for Iga	The B lymphocyte antigen receptor is a multimeric complex that includes the antigen-specific component, surface immunoglobulin (Ig). Surface Ig non-covalently associates with two other proteins, Ig-alpha and Ig-beta, which are necessary for expression and function of the B-cell antigen receptor. This gene encodes the Ig-alpha protein of the B-cell antigen component. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]
UniProt Comments for Iga	Ig-alpha: an integral membrane protein that associates with surface immunoglobulin B lymphocyte antigen receptor multimeric complex. Surface Ig non-covalently associates with 2 other proteins, Ig-alpha and Ig-beta, which are necessary for expression and function of the B-cell antigen receptor. Two alternatively spliced isoforms have been described. Protein type: Membrane protein, integral; Immunoglobulin superfamily Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: multivesicular body; plasma membrane; integral to membrane; B cell receptor complex; external side of plasma membrane; lipid raft Molecular Function: transmembrane receptor activity Biological Process: B cell proliferation; B cell receptor signaling pathway; B cell activation; B cell differentiation Disease: Agammaglobulinemia 3, Autosomal Recessive
Research Articles on Iga	**1.** The effect of chronic alcohol intoxication and smoking on the output of salivary immunoglobulin A (IgA) was studied.
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