Phospho-GATA1 (Ser310) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	GATA1, Blocking Peptide
Full Product Name	Phospho-GATA1 (Ser310) Blocking Peptide
Product Gene Name	GATA1 blocking peptide
Product Synonym Names	Anemia, X-linked, without thrombocytopenia, included; ERYF 1; Eryf1; Erythroid transcription factor; Erythrold transcription factor 1; GATA 1; GATA binding factor 1; GATA binding protein 1 (globin transcription factor 1); GATA binding protein 1; GATA-1; GATA-binding factor 1; GATA1; GATA1_HUMAN; GF 1; GF-1; GF1; Globin transcription factor 1; NF E1; NF E1 DNA binding protein; NF-E1 DNA-binding protein; NFE 1; NFE1; Nuclear factor erythroid 1; Transcription factor GATA1; XLANP; XLTDA; XLTT
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	GATA1 (Ser310) peptide (MBS9615539) is used for blocking the activity of GATA1 (Ser310) antibody (MBS9600956)
Molecular Weight	42,751 Da
Chromosome Location	Chromosome: X; NC_000023.10 (48644982..48652718). Location: Xp11.23
OMIM	300367
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for GATA1 blocking peptide	Blocking/Control
Related Product Information for GATA1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of GATA1 blocking peptide 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.
Searchable Terms for GATA1 purchase	MBS9615539 is a blocking peptide targeting GATA1. Also known as Phospho-GATA1 (Ser310) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GATA1. It may not necessarily be applicable to this product.

NCBI GI #	4503925

NCBI GeneID	2623
NCBI Accession #	NP_002040.1
UniProt Primary Accession #	P15976
UniProt Secondary Accession #	Q96GB8
UniProt Related Accession #	P15976
GenBank Nucleotide #	NM_002049.3
NCBI Official Full Name	erythroid transcription factor
NCBI Official Synonym Full Names	GATA binding protein 1 (globin transcription factor 1)
NCBI Official Symbol	GATA1
NCBI Official Synonym Symbols	GF1; GF-1; NFE1; XLTT; ERYF1; XLANP; XLTDA; GATA-1
UniProt Protein Name	Erythroid transcription factor
UniProt Synonym Protein Names	Eryf1; GATA-binding factor 1; GATA-1; GF-1; NF-E1 DNA-binding protein
Protein Family	Erythroid transcription factor
UniProt Gene Name	GATA1
UniProt Synonym Gene Names	ERYF1; GF1; GATA-1; GF-1
UniProt Entry Name	GATA1_HUMAN
NCBI Protein Information	erythroid transcription factor; GATA-binding factor 1; NF-E1 DNA-binding protein; transcription factor GATA1; globin transcription factor 1; erythroid transcription factor 1
NCBI Summary for GATA1	This gene encodes a protein which belongs to the GATA family of transcription factors. The protein plays an important role in erythroid development by regulating the switch of fetal hemoglobin to adult hemoglobin. Mutations in this gene have been associated with X-linked dyserythropoietic anemia and thrombocytopenia. [provided by RefSeq, Jul 2008]
UniProt Comments for GATA1	GATA1: Transcriptional activator which probably serves as a general switch factor for erythroid development. It binds to DNA sites with the consensus sequence [AT]GATA[AG] within regulatory regions of globin genes and of other genes expressed in erythroid cells. May form homodimers or heterodimers with other isoforms. Interacts (via the N-terminal zinc finger) with ZFPM1. Interacts with GFI1B. Interacts with PIAS4; the interaction enhances sumoylation and represses the transactivational activity in a sumoylation-independent manner. Interacts with LMCD1. Interacts with CREBBP; the interaction stimulates acetylation and transcriptional activity in vivo. Interacts with EP300. Erythrocytes. 3 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: Xp11.23 Cellular Component: nucleoplasm; transcription factor complex; transcriptional repressor complex; nucleus Molecular Function: protein binding; DNA binding; zinc ion binding; chromatin DNA binding; p53 binding; sequence-specific DNA binding; DNA bending activity; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; erythrocyte development; embryonic hemopoiesis; megakaryocyte differentiation; in utero embryonic development; positive regulation of erythrocyte differentiation; eosinophil differentiation; male gonad development; negative regulation of transcription from RNA polymerase II promoter; negative regulation of cell proliferation; negative regulation of bone mineralization; positive regulation of peptidyl-tyrosine phosphorylation; cell-cell signaling; positive regulation of osteoblast proliferation; erythrocyte differentiation; positive regulation of transcription from RNA polymerase II promoter; platelet formation; blood coagulation; basophil differentiation; negative regulation of apoptosis Disease: Thrombocytopenia With Beta-thalassemia, X-linked; Anemia, X-linked, With Or Without Neutropenia And/or Platelet Abnormalities; Thrombocytopenia, X-linked, With Or Without Dyserythropoietic Anemia; Down Syndrome

Research Articles on GATA1	**1.** Data indicate taht ETO2/CBFA2T3 regulates GATA-1 target genes critical for erythroid differentiation, and the decrease of ETO2 levels during erythroid differentiation would contribute to the activation of these targets.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/gata1/9615539