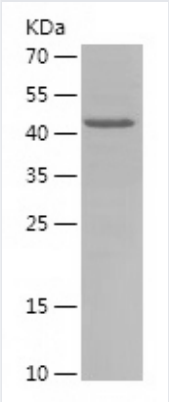
GATA1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	GATA1, Recombinant Protein
Full Product Name	Recombinant Human GATA1
Product Gene Name	GATA1 recombinant protein
Product Synonym Names	ERYF1; Erythroid transcription factor; GATA 1; GATA binding factor 1; GATA1; GF 1; GF1; NF E1 DNA binding protein
Host	E Coli
Form/Format	Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose and 0.06% proclin, pH7.4
Purity/Purification	Greater than 90% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	42,751 Da
Sequence Positions	63-276
Chromosome Location	Chromosome: X; NC_000023.10 (48644982..48652718). Location: Xp11.23
OMIM	300367
3D Structure	ModBase 3D Structure for P15976
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000 rpm for 1 minute, reconstitute at 200 ug/ml in sterile distilled water by gentle pipetting 2-3 times, don't vortex
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for GATA1 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for GATA1 recombinant protein	MBS7616022 is a recombinant protein targeting GATA1. Also known as Recombinant Human GATA1. Host: E Coli.
Other Notes	Small volumes of GATA1 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.



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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.
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