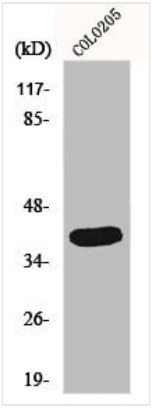
GATA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GATA1, Polyclonal Antibody
Full Product Name	GATA1 Antibody
Product Gene Name	anti-GATA1 antibody
Product Synonym Names	GATA1; ERYF1; GF1; Erythroid Transcription factor; Eryf1; GATA-binding factor 1; GATA-1; GF-1; NF-E1 DNA-binding protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat, Monkey
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	42,751 Da
Chromosome Location	Chromosome: X; NC_000023.10 (48644982..48652718). Location: Xp11.23
OMIM	300367
3D Structure	ModBase 3D Structure for P15976
Immunogen	Synthesized peptide derived from human GATA-1 around the non-phosphorylation site of S310.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-GATA1 antibody	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GATA1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-GATA1 antibody	WB: 1:500-1:2000 ELISA: 1:20000
Related Product Information for anti-GATA1 antibody	MBS7116372 is an antibody targeting GATA1. Also known as GATA1 Antibody. Reactive in Human, Mouse, Rat, Monkey. Host: Rabbit.
Other Notes	Small volumes of anti-GATA1 antibody 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.



Western Blot (WB) of anti-GATA1 antibody
Western Blot analysis of COLO205 cells using GATA-1 Polyclonal Antibody

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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