GATA-1 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	GATA-1, Polyclonal Antibody
Full Product Name	GATA-1 Polyclonal Antibody
Product Gene Name	anti-GATA-1 antibody
Clonality	Polyclonal
Molecular Weight	34,232 Da
OMIM	300367
3D Structure	ModBase 3D Structure for P15976
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-GATA-1 antibody	MBS8522840 is an antibody targeting GATA-1. Also known as GATA-1 Polyclonal Antibody.
Other Notes	Small volumes of anti-GATA-1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GATA-1. 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
NCBI Official Symbol	GATA1
NCBI Official Synonym Symbols	GF1; GF-1; NFE1; XLTT; ERYF1; NF-E1; 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
NCBI Protein Information	erythroid transcription factor

NCBI Summary for GATA-1	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 GATA-1	Transcriptional activator or repressor which probably serves as a general switch factor for erythroid development. It binds to DNA sites with the consensus sequence 5'-[AT]GATA[AG]-3' within regulatory regions of globin genes and of other genes expressed in erythroid cells. Activates the transcription of genes involved in erythroid differentiation of K562 erythroleukemia cells, including HBB, HBG1/2, ALAS2 and HMBS (PubMed:24245781).
Research Articles on GATA-1	**1.** Here, using zebrafish, murine, and human models, the authors show that erythropoietin (EPO) signaling, together with the GATA1 transcriptional target, AKAP10, regulates heme biosynthesis during erythropoiesis at the outer mitochondrial membrane.
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