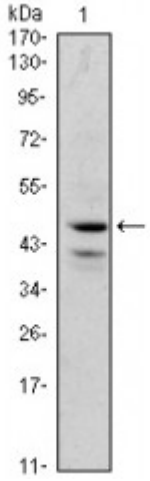
Anti-GATA-1 antibody



Description	Mouse monoclonal to GATA-1.

Model	STJ98097
Host	Mouse
Reactivity	Human
Applications	ELISA, WB
Immunogen	Purified recombinant fragment of human GATA-1 expressed in E. Coli.
Gene ID	2623
Gene Symbol	GATA1
Dilution range	WB 1:500-1:2000ELISA 1:10000
Specificity	GATA-1 Monoclonal Antibody detects endogenous levels of GATA-1 protein.
Tissue Specificity	Erythrocytes.
Purification	Affinity purification
Clone ID	4G1
Note	For Research Use Only (RUO).
Protein Name	Erythroid transcription factor Eryf1 GATA-binding factor 1 GATA-1 GF-1 NF-E1 DNA-binding protein
Clonality	Monoclonal
Conjugation	Unconjugated

Isotype	IgG1
Formulation	Ascitic fluid containing 0.03% sodium azide.
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:4170OMIM:300367
Alternative Names	Erythroid transcription factor Eryf1 GATA-binding factor 1 GATA-1 GF-1 NF-E1 DNA-binding protein
Function	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 .
Sequence and Domain Family	The two fingers are functionally distinct and cooperate to achieve specific, stable DNA binding. The first finger is necessary only for full specificity and stability of binding, whereas the second one is required for binding .
Cellular Localization	Nucleus.
Post-translational Modifications	Highly phosphorylated on serine residues. Phosphorylation on Ser-310 is enhanced on erythroid differentiation. Phosphorylation on Ser-142 promotes sumoylation on Lys-137 . Sumoylation on Lys-137 is enhanced by phosphorylation on Ser-142 and by interaction with PIAS4. Sumoylation with SUMO1 has no effect on transcriptional activity . Acetylated at 2 conserved lysine-rich motifs by CREBBP in vitro. Acetylation does not affect DNA-binding in vitro but is essential to induce erythroid differentiation and for binding chromatin in vivo . Acetylated on Lys-233, Lys-245 Lys-246 by EP300.