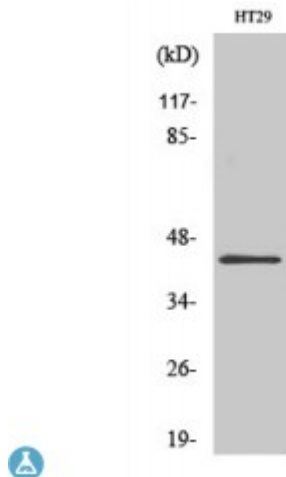


## Anti-GATA-1 antibody



<b>Description</b>	Rabbit polyclonal to GATA-1.
<b>Model</b>	STJ93223
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	ELISA, IF, IHC, IP, WB
<b>Immunogen</b>	Synthesized peptide derived from human GATA-1 around the non-phosphorylation site of S142.
<b>Immunogen Region</b>	80-160 aa
<b>Gene ID</b>	<a href="#">2623</a>
<b>Gene Symbol</b>	<a href="#">GATA1</a>
<b>Dilution range</b>	WB 1:500-1:2000IHC 1:100-1:300IP 1:200-500IF 1:200-1:1000ELISA 1:10000
<b>Specificity</b>	GATA-1 Polyclonal Antibody detects endogenous levels of GATA-1 protein.
<b>Tissue Specificity</b>	Erythrocytes.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Erythroid transcription factor Eryf1 GATA-binding factor 1 GATA-1 GF-1 NF-E1 DNA-binding protein
<b>Molecular Weight</b>	43 kDa

<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="https://www.ncbi.nlm.nih.gov/RefSeq/record/NC_000001.11:300367">HGNC:41700MIM:300367</a>
<b>Alternative Names</b>	Erythroid transcription factor Eryf1 GATA-binding factor 1 GATA-1 GF-1 NF-E1 DNA-binding protein
<b>Function</b>	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 .
<b>Sequence and Domain Family</b>	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 .
<b>Cellular Localization</b>	Nucleus.
<b>Post-translational Modifications</b>	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.