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Anti-GATA1 (pS310) Antibody

Rabbit polyclonal antibody to GATA1 (pS310)
Catalog # AP60290

Product Information

Application	WB, IF/IC
Primary Accession	P15976
Other Accession	P17679
Reactivity	Human, Mouse, Rat, Monkey, Pig, SARS
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42751

Additional Information

Gene ID	2623
Other Names	ERYF1; GF1; Erythroid transcription factor; Eryf1; GATA-binding factor 1; GATA-1; GF-1; NF-E1 DNA-binding protein
Target/Specificity	Recognizes endogenous levels of GATA1 (pS310) protein.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

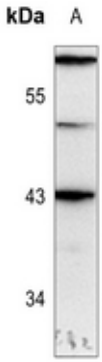
Protein Information

Name	GATA1
Synonyms	ERYF1, GF1
Function	Transcriptional activator or repressor which serves as a general switch factor for erythroid development (PubMed:35030251). 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).
Cellular Location	Nucleus.
Tissue Location	Erythrocytes..

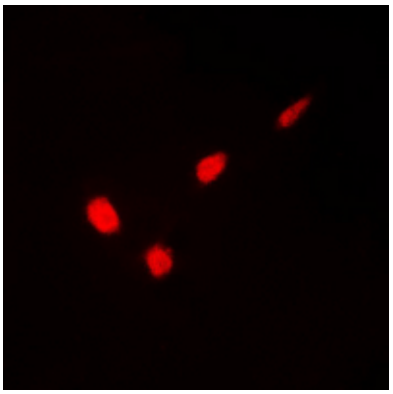
Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human GATA1 (pS310). The exact sequence is proprietary.

Images



Western blot analysis of GATA1 (pS310) expression in K562 (A) whole cell lysates.



Immunofluorescent analysis of GATA1 (pS310) staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).