

GATA1 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1399a

Product Information

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| Application | WB, E |
| Primary Accession | P15976 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone Names | 4G1 |
| Isotype | IgG1 |
| Calculated MW | 42751 |
| Description | erythroid specific transcription factor,GATA sequence binding protein (same as EryF1,NF-E1,EF-1,EF gamma-a,GF1),expressed in RBC,mast cell,megakaryocyte,hematopoietic progenitor cell,testis,associated with a special class of nuclear bodies,activated by erythropoietin,inactivated by coactivation of DEATH receptors (TNFRSF6) mediated caspase cleavage Tissue specificity: Erythrocytes |
| Immunogen | Purified recombinant fragment of human GATA1 expressed in E. Coli. |
| Formulation | Ascitic fluid containing 0.03% sodium azide. |

Additional Information

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| Gene ID | 2623 |
| Other Names | Erythroid transcription factor, Eryf1, GATA-binding factor 1, GATA-1, GF-1, NF-E1 DNA-binding protein, GATA1, ERYF1, GF1 |
| Dilution | WB~~1/500 - 1/2000 E~~N/A |
| Storage | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | GATA1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| Name | GATA1 |
| Synonyms | ERYF1, GF1 |

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| 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.. |

References

1. Cancer Res. 2009 Apr 15;69(8):3681-8. 2. J Bone Miner Res. 2009 Dec;24(12):2039-49. 3. Blood. 2010 Jun 3;115(22):4367-76.

Images

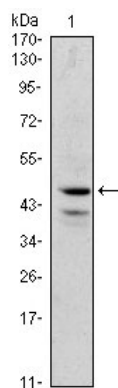


Figure 1: Western blot analysis using GATA1 mouse mAb against K562 (1) cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.