

GATA1 Antibody

Mouse Monoclonal Antibody to GATA1

Catalog # AO1381b

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P15976
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4F5
Isotype	Mouse IgG2b
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.

Additional Information

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
Target/Specificity	Purified recombinant fragment of human GATA1 expressed in E. Coli.
Dilution	WB~~1:500~~2000 IHC~~1:200~~1000 ICC~~N/A E~~N/A
Format	Ascitic fluid containing 0.03% sodium azide.
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

Name	GATA1
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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..

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

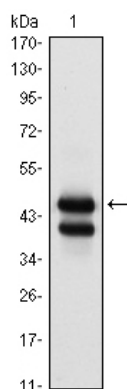


Figure 1: Western blot analysis using GATA1 mouse mAb against K562 (1) cell lysate.

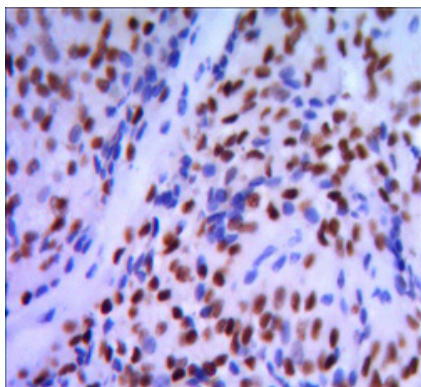


Figure 3: Immunohistochemical analysis of paraffin-embedded pancreatic cancer, using GATA1 mouse mAb with DAB staining.

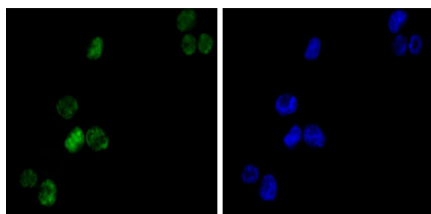


Figure 2: Immunofluorescence analysis of K562 (left) cells using GATA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

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