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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

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

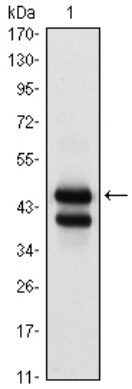


Figure 1: Western blot analysis using GATA1 mouse mAb against K562 (1) cell lysate.

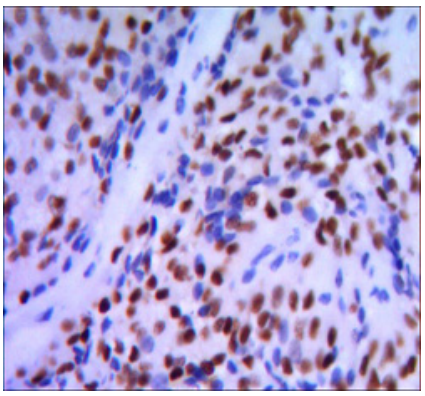


Figure 3: Immunohistochemical analysis of paraffin-embedded pancreatic cancer, using GATA1 mouse mAb with DAB staining.

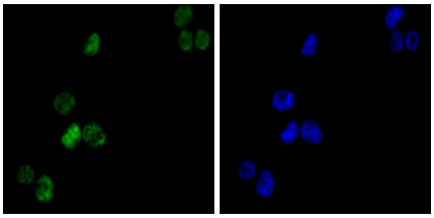


Figure 2:Immunofluorescence analysis of K562(left) cells using GATA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

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