

**GATA1 Antibody**  
**Mouse Monoclonal Antibody to GATA1**  
**Catalog # AO1381b****Specification**

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**GATA1 Antibody - Product Information**

Application	WB, IHC, ICC, E
Primary Accession	<a href="#">P15976</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
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.

**GATA1 Antibody - 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.

## GATA1 Antibody - Protein Information

**Name** GATA1

**Synonyms** ERYF1, GF1

### Function

Transcriptional activator or repressor which serves as a general switch factor for erythroid development (PubMed:<a href="http://www.uniprot.org/citations/35030251" target="\_blank">35030251</a>). 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:<a href="http://www.uniprot.org/citations/24245781" target="\_blank">24245781</a>).

### Cellular Location

Nucleus.

### Tissue Location

Erythrocytes..

## GATA1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## GATA1 Antibody - Images

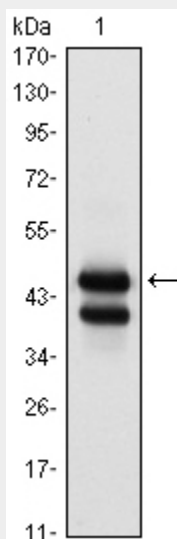


Figure 1: Western blot analysis using GATA1 mouse mAb against K562 (1) cell lysate.

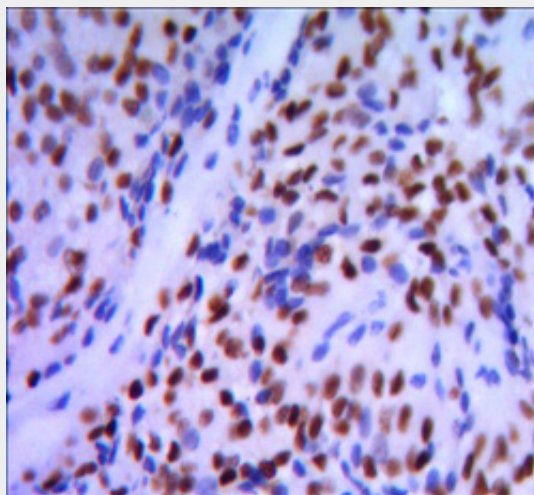


Figure 3: Immunohistochemical analysis of paraffin-embedded pancreatic cancer, using GATA1 mouse mAb with DAB staining.

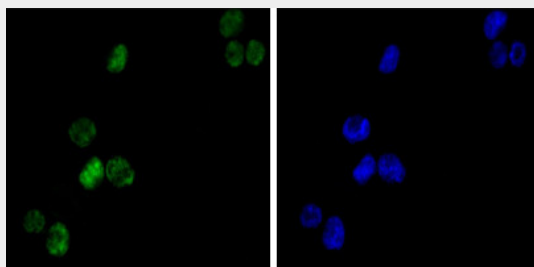


Figure 2: Immunofluorescence analysis of K562(left) cells using GATA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

#### **GATA1 Antibody - 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.