

# GATA1 ABfinity™ Recombinant Rabbit Monoclonal Antibody - Purified



Catalog no. 700727

(See product label for lot information)

**Clone/PAD:** 4H15L5  
**Isotype:** IgG  
**Gene ID:** 2623  
**Protein Acc. no.:** P15976  
**Qty:** 100 µg  
**Volume:** 200 µl  
**Concentration:** 0.5 mg/mL

## Formulation

Phosphate buffered saline (PBS) with 0.09% sodium azide.

## Application

For use in Western Blotting and ELISA.

## Reactivity

This antibody is specific for human GATA1.

## Immunogen

Recombinant protein corresponding to amino acids 1-200 of human GATA1.

## Sequence Identity

Human

## Expected Reactivity

Based on sequence identity and similarity, reactivity to Human and is predicted.

## Storage

2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

## Expiration Date

Expires one year from date of receipt when stored as instructed.

## Background

Globin transcription factor (GATA) is a family of proteins that play a very important role in translating various signaling pathways which control the erythroid progenitor cells; to proliferate and differentiate (1). There are 6 transcription factors in the GATA family from GATA1 to GATA 6 of which GATA 1 plays a key role in the blood cell differentiation. To facilitate differentiation of red blood cells; GATA 1 along with binding to DNA also interacts with other regulatory proteins (2). GATA proteins have a high affinity to bind to DNA that show the [AT]GATA[AG] sequence (3). GATA 1 is found on the X chromosome (4).

## References

- 1) Karoline Briegel, Petr Bartunek, Gabi Stengl, Kim-Chew Lim, Hartmut Beug, James Douglas Engel and Martin Zenke. 1996. Regulation and function of transcription factor GATA-1 during red blood cell differentiation. *Development*. 3839-3850.
- 2) Rita Ferreira, Kinuko Ohneda, Masayuki Yamamoto, and Sjaak Philipsen. 2005. GATA1 Function, a Paradigm for Transcription Factors in Hematopoiesis. *Molecular and Cellular Biology*. 1215-1227.
- 3) Menie Merika and Stuart H. Orkin. 1993. DNA-Binding Specificity of GATA Family Transcription Factors. *Molecular and Cellular Biology*. 3999-4010
- 4) Yuko Fujiwara, Carol P. Browne, Kerriane Cunniff, Sabra C. Goff and Stuart H. Orkin. 1996. Arrested development of embryonic red cell precursors in mouse embryos lacking transcription factor GATA-1. *Proceedings of the National Academy of Sciences*. 12355-12358

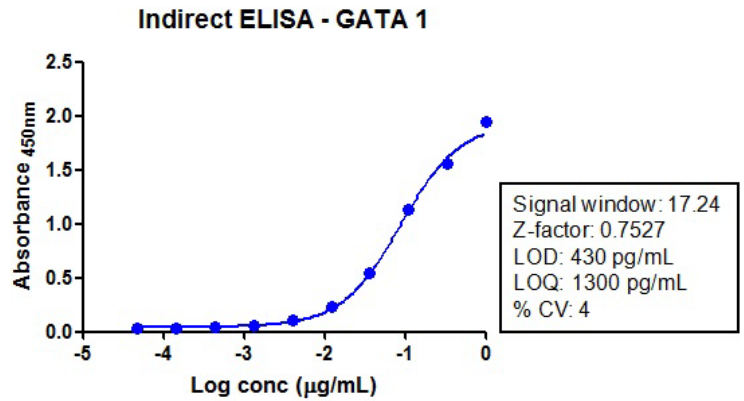
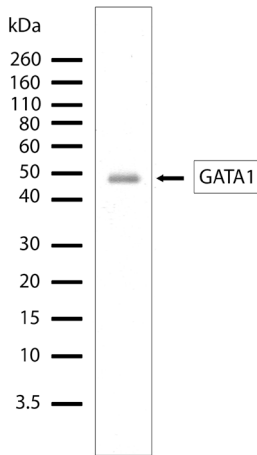
## Applications:

	Species	Test Material	Concentration
Western Blotting	Human	K562	0.1 - 2 µg/ml
Indirect ELISA	Human	Recombinant Protein	4.7x10 <sup>-5</sup> - 1 µg/ml

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**Western Blot of GATA1 labeled with GATA1 Rabbit Recombinant Monoclonal Antibody (Cat. No.700727).**

GATA1 Rabbit Recombinant Monoclonal Antibody (1 µg/mL) was used to detect GATA1 in K562 Cell Lysate (30µg/lane). The western was performed using 5% milk in TBST as Blocking agent. GAR-AP (1:10,000) used as Secondary and developed with NBT/BCIP as the substrate.

**Indirect ELISA of GATA1 Rabbit Recombinant Monoclonal Antibody (Cat. No.700727).**

Indirect ELISA was done using GATA1 Rabbit Recombinant Monoclonal Antibody to detect the recombinant protein (100ng/well), using TMB (Cat. No. SB01) as substrate.

**Explanation of symbols**

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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