

GATA1 Rabbit Recombinant Oligoclonal Antibody – Purified

Catalog no. 710049

(See product label for lot information)



Clone/PAD: 4HCLC
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

Reactivity

This antibody is specific for human GATA1

Immunogen

Protein corresponding to amino acids
1–200 of human GATA1

Sequence Identity

Human

Expected Reactivity

Based on sequence identity and similarity,
reactivity to human is expected.

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 proliferation and differentiation in erythroid progenitor cells (1). There are 6 transcription factors in the GATA family (GATA1 to GATA 6). GATA1 plays a key role in the blood cell differentiation by interacting with other regulatory proteins (2), and initiating transcription by binding to DNA. GATA proteins have a high affinity for DNA with the [AT]GATA[AG] sequence (3). GATA1 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, Kerrianne 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.

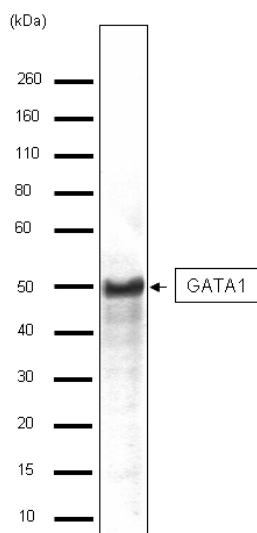
Applications:

	Species	Test Material	Concentration
Western Blotting	Human	K562	1–5 µg/mL

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Western Blot of GATA1 labeled with GATA1 Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710049). GATA1 Rabbit Recombinant Oligoclonal Antibody (2.5 µg/mL) was used to detect GATA1 in K562 Cell Lysate (30 µg/lane). The western blot was performed using the WesternBreeze® kit (Cat. no. WB7105) with NBT/BCIP as the 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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