

GATA2 ABfinity™ Recombinant Rabbit Oligoclonal Antibody – Purified

Publication Part no. MAN0006245

Rev. 1.0

Catalog Number: 710242

Store at 2–8°C (short-term), or –20°C (long-term)

Clonality: Oligoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human GATA binding protein 2
Predicted Reactivity: Human

Product Description

GATA2 (GATA binding protein 2) belongs to the GATA family of transcription factors. GATA proteins play a very important role in signaling pathways controlling proliferation and differentiation of erythroid progenitor cells. There are 6 transcription factors in the GATA family: GATA1 to GATA6. GATA2 is a transcriptional activator regulating endothelin-1 gene expression in endothelial cells. It also appears to be involved in differentiation of other tissue types (uro-genital and nervous) during embryogenesis.

Product Specifications

Immunogen: Peptide corresponding to amino acids 396–409 of human GATA binding protein 2
Alternate Names: DCML, MONOMAC, NFE1B
Apparent MW: ~50 kDa
Gene ID: 2624
Protein Accession No.: P23769
Sequence Identity: Human
Sequence Homology: Mouse, Rat, Monkey, Rabbit, Horse
Clone/PAD: 11HCLC
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	K562 cells	2–5 µg/mL
Immunocytochemistry	Human	U2OS cells	1–3 µg/mL
Indirect ELISA	Human	Peptide	1.5x10 ⁻⁴ to 3 µg/mL

Storage and Handling

Store the antibody at 2–8°C for up to 1 month, or –20°C for long storage. Avoid repeated freezing and thawing.

Stability

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

Storage Buffer

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

Note: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

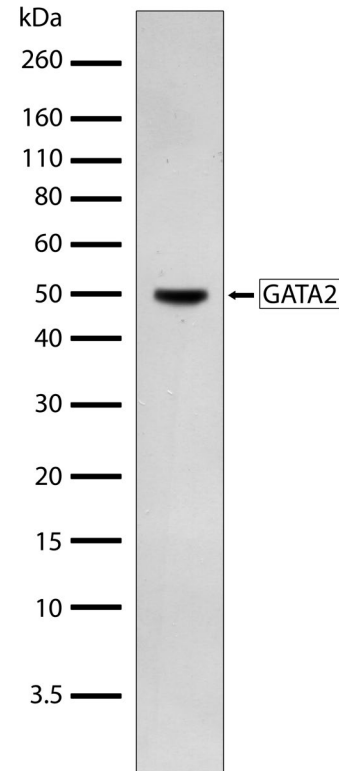


Figure 1 Western blot analysis of GATA2 ABfinity™ Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710242). Western blot analysis was performed on K562 whole cell extracts. Endogenous GATA2 at ~50 kDa was detected using GATA2 ABfinity™ Recombinant Rabbit Oligoclonal Antibody at a concentration of 2.5 µg/mL. The blot was developed using chemiluminescence (ECL) method.

For research use only. Not for human or animal therapeutic or diagnostic use.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.lifetechnologies.com/sds.

Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to www.lifetechnologies.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

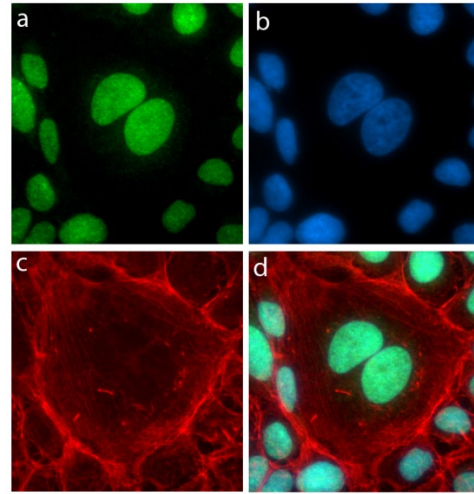


Figure 2 Immunocytochemistry analysis of GATA2 ABfinity™ Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710242). Immunocytochemistry analysis of U2OS cells stained with GATA2 ABfinity™ Recombinant Rabbit Oligoclonal Antibody, using **a:** Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b:** DAPI stained U2OS nuclei (blue). **c:** Actin stained with Alexa Fluor® 594 phalloidin (red). **d:** Composite image of cells showing nuclear localization of GATA2.

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro 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.		

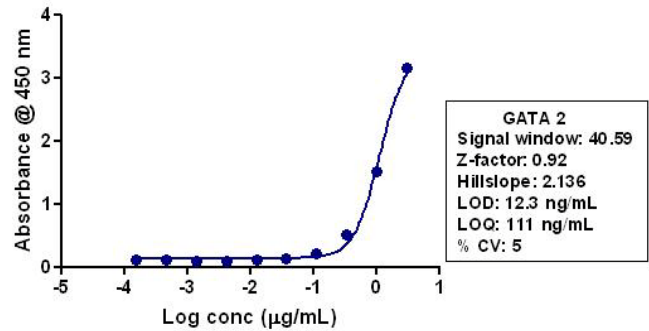


Figure 3 Indirect ELISA of GATA2 ABfinity™ Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710242). Indirect ELISA was performed using various dilutions of GATA2 ABfinity™ Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710242) to detect GATA2 peptide coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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