

Datasheet: AHP2403

BATCH NUMBER 160223

Description:	RABBIT ANTI GATA3
Specificity:	GATA3
Other names:	GATA-3, GATA-binding factor 3
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin (1)	▪			1/50 - 1/500
Western Blotting	▪			1/1000
Immunofluorescence	▪			1/50 - 1/500
Immunocytochemistry	▪			1/50 - 1/500

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This antibody requires heat-mediated antigen retrieval prior to staining. Bio-Rad recommend citrate buffer pH6.0 for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to GATA3 was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography on Protein G.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.05% Sodium Azide (NaN ₃)

1 mg/ml Bovine Serum Albumin
30% Glycerol

Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

Immunogen

Purified partial recombinant GATA3 protein expressed in *E. coli*

External Database Links**UniProt:**

[P23771](#) [Related reagents](#)

Entrez Gene:

[2625](#) GATA3 [Related reagents](#)

Specificity

Rabbit anti GATA3 antibody recognizes GATA3, also known as Trans-acting T-cell-specific transcription factor GATA-3 or GATA-binding factor 3. The protein is a member of the GATA family of transcription factors, which has received its name from binding DNA sequences containing the GATA consensus motif 5'-[AT]GATA[AG]-3' ([uniprot P15976](#)).

GATA3 has been shown to play a critical role in T cell development and the differentiation of T helper 2 (Th2) cells ([Ho et al. 1991](#)). In addition, GATA3 has been implied to have tissue specific functions such as a regulatory role in the development of the mammary gland epithelium and skin tissue ([Chou et al. 2010](#)).

Aberrant GATA3 levels have been identified in a variety of cancers including breast cancer. Indeed, GATA3 has become a marker for certain breast cancer types and GATA3 antibodies are commonly used for the immunohistochemical evaluation of breast cancer samples ([Krings et al. 2014](#)).

Western Blotting

Rabbit anti GATA3 antibody recognizes a band of approximately 55 kDa in SH-SY5Y cell lysate and SH-SY5Y nuclear extract

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10048 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP2403>
10048

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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