

Datasheet: MCA6036

Description:	MOUSE ANTI GATA3
Specificity:	GATA3
Other names:	GATA-BINDING FACTOR 3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	1A12-1D9
Isotype:	IgG1
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)	■			1/200 - 1/2000
Immunoprecipitation	■			5 µg
Western Blotting	■			1/1000
Immunofluorescence	■			1/50 - 1/100
Immunocytochemistry	■			1/50 - 1/100

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. Citrate buffer pH6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
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 recombinant human GATA3 protein expressed in *E. coli*

External Database Links

UniProt:

[P23771](#)

[Related reagents](#)

Entrez Gene:

[2625](#)

GATA3

[Related reagents](#)

Specificity

Mouse anti GATA3 antibody clone 1A12-1D9 recognizes GATA3 also known as trans-acting T-cell-specific transcription factor GATA-3 or GATA-binding factor 3.

The GATA3 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' ([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 also 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

Mouse 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.

Shelf Life

12 months from date of despatch

Health And Safety Information

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

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...)

[Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...)

[Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...)

[FITC](#)

Goat Anti Mouse IgG (STAR77...)

[HRP](#)

Rabbit Anti Mouse IgG (STAR12...)

[RPE](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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