

## Datasheet: MCA6036

<b>Description:</b>	MOUSE ANTI GATA3
<b>Specificity:</b>	GATA3
<b>Other names:</b>	GATA-BINDING FACTOR 3
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	1A12-1D9
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin (1)	▪			1/200 - 1/2000
Immunoprecipitation	▪			5 ug
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.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Mouse, Rat</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
<b>Product Form</b>	Purified IgG - liquid

<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> ) 1 mg/ml Bovine Serum Albumin 30% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Purified partial recombinant recombinant human GATA3 protein expressed in <i>E. coli</i>
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P23771</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2625</a>    GATA3    <a href="#">Related reagents</a></p>
<b>Specificity</b>	<p><b>Mouse anti GATA3 antibody</b> clone 1A12-1D9 recognizes GATA3 also known as trans-acting T-cell-specific transcription factor GATA-3 or GATA-binding factor 3.</p> <p>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' (<a href="#">P15976</a>). GATA3 has been shown to play a critical role in T cell development and the differentiation of T helper 2 (Th2) cells (<a href="#">Ho et al. 1991</a>). 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 (<a href="#">Chou et al. 2010</a>).</p> <p>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 (<a href="#">Krings et al. 2014</a>).</p>
<b>Western Blotting</b>	Mouse anti GATA3 antibody recognizes a band of approximately 55 kDa in SH-SY5Y cell lysate and SH-SY5Y nuclear extract
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety</b>	Material Safety Datasheet documentation #10048 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/MCA6036>  
10048

---

**Regulatory** For research purposes only

---

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M410527:221028'

Printed on 25 Mar 2023

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)