

Datasheet: MCA6104

**BATCH NUMBER 151343**

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|----------------------|--|
| <b>Description:</b>  | HUMAN ANTI INTEGRIN ALPHA 4 (NATALIZUMAB BIOSIMILAR) |
| <b>Specificity:</b>  | INTEGRIN ALPHA 4                                     |
| <b>Format:</b>       | Purified   |
| <b>Product Type:</b> | Monoclonal Antibody                                  |
| <b>Clone:</b>        | Natalizumab  |
| <b>Isotype:</b>      | IgG4   |
| <b>Quantity:</b>     | 0.2 mg   |

## 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 |
|-------|-----|----|----------------|--------------------|
| ELISA | ▪   |    |                |                    |

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.

|                                       |  |
|---------------------------------------|--|
| <b>Target Species</b>                 | Human  |
| <b>Product Form</b>                   | Human IgG4 (kappa) antibody - liquid   |
| <b>Preparation</b>                    | Purified recombinant IgG prepared by affinity chromatography on Protein A from a mammalian cell line |
| <b>Buffer Solution</b>                | Phosphate buffered saline  |
| <b>Preservative Stabilisers</b>       | 0.02% Proclin 300  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml  |
| <b>Immunogen</b>                      | RAMOS cell line  |
| <b>Specificity</b>                    | <b>Human Anti-Integrin Alpha 4 Antibody</b> is a research grade biosimilar of the monoclonal         |

antibody drug natalizumab. It is a recombinant human IgG4 kappa antibody with variable regions from the therapeutic antibody natalizumab.

Human Anti-Integrin Alpha 4 Antibody is for research use only. It is suitable as a reference standard in a pharmacokinetic (PK) bridging ELISA with anti-natalizumab antibodies, for example [HCA248](#) and [HCA249P](#). It can also be used as capture and detection reagent in an anti-drug antibody (ADA) bridging ELISA, with an anti-natalizumab antibody in IgG1 format as reference standard, for example [HCA249](#).

Natalizumab (Tysabri) is a humanized IgG4/kappa monoclonal antibody approved as a monotherapy for the treatment of relapsing forms of multiple sclerosis and for the treatment of Crohn's disease. Natalizumab is also being evaluated for potential clinical use in the treatment of B-cell malignancies. This therapeutic antibody, directed against alpha-4 integrin (CD49d), binds to alpha-4/beta-1 integrin on the surface of circulating leucocytes. It is believed to act by blocking the interaction of alpha-4/beta-1 integrin with vascular cell adhesion molecule-1 (VCAM-1), preventing the adherence and transport of inflammatory immune cells across the intestinal lining and blood-brain barrier.

This product is NOT FOR THERAPEUTIC USE.

[View a summary of supporting anti-natalizumab antibody products](#)

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|--------------------------------------|---|
| <b>Purity</b>                        | >98% by SDS PAGE  |
| <b>Storage</b>                       | Store at +4°C or at -20°C if preferred.<br>Storage in frost-free freezers is not recommended.<br>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. |
| <b>Guarantee</b>                     | 12 months from date of despatch   |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #20463 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6104">https://www.bio-rad-antibodies.com/SDS/MCA6104</a><br>20463   |
| <b>Licensed Use</b>                  | For in vitro research purposes only. Research grade biosimilar. Not for use in therapeutic or diagnostic procedures for humans or animals.  |
| <b>Regulatory</b>                    | For research purposes only  |

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## Related Products

### Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

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)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

'M373152:200827'

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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