

Datasheet: MCA6092

**BATCH NUMBER 166656**

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| <b>Description:</b>  | HUMAN ANTI ErbB2 (TRASTUZUMAB BIOSIMILAR) |
| <b>Specificity:</b>  | ErbB2                                     |
| <b>Format:</b>       | Purified                                  |
| <b>Product Type:</b> | Monoclonal Antibody                       |
| <b>Clone:</b>        | 4D5-8                                     |
| <b>Isotype:</b>      | IgG1                                      |
| <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 IgG1 (kappa) antibody - liquid   |
| <b>Preparation</b>                    | Purified recombinant IgG prepared by affinity chromatography on Protein A from a mammalian cell line |
| <b>Source</b>                         | HEK  |
| <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>                      | A431 cells (human epidermoid carcinoma) (over)expressing EGFR  |

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**Specificity** **Human Anti-ErbB2 antibody, clone 4D5-8** is a research grade biosimilar of the monoclonal antibody drug trastuzumab. This product is supplied in a research grade format, i.e. in PBS buffer with preservative, it is not manufactured or formulated in the same way as the therapeutic reference product. A preservative free version is available [on request](#).

This product is a recombinant human IgG1 kappa antibody with variable regions from the therapeutic trastuzumab antibody clone 4D5-8.

Human Anti-ErbB2 antibody, clone 4D5-8 is for research use only. It is suitable as a reference standard in a pharmacokinetic (PK) bridging ELISA with anti-trastuzumab antibodies, for example [HCA168](#) and [HCA167](#). It can also be used as capture and detection reagent in an anti-drug antibody (ADA) bridging ELISA, with an anti-trastuzumab antibody in IgG1 format as a reference standard, for example [HCA176](#) or [HCA177](#).

Trastuzumab, also known as Herceptin, is a drug used in the treatment of HER2 positive breast cancer and other HER2 over-expressing cancers including HER2-positive metastatic cancers of the gastrointestinal tract. Trastuzumab binds to the HER2 (or c-erbB2) proto-oncogene, an EGF receptor-like protein found on 20-30% of breast cancer cells. The binding leads to antibody mediated (complement mediated) killing of the HER2 positive cells.

This product is NOT FOR THERAPEUTIC USE.

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

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**Purity** >98% by SDS PAGE

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**Further Reading** 1. Pivot, X. *et al.* (2015) Challenges in the implementation of trastuzumab biosimilars: an expert panel's recommendations. [Anticancer Drugs. 26 \(10\): 1009-16.](#)

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**Storage** 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #20463 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6092>  
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**Licensed Use** For in vitro research purposes only. Research grade biosimilar. Not for use in therapeutic or diagnostic procedures for humans or animals.

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**Regulatory** For research purposes only

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## Related Products

### Recommended Useful Reagents

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK001P\)](#)  
[HISPEC ASSAY DILUENT \(BUF049A\)](#)  
[HUMAN ANTI TRASTUZUMAB \(HCA166\)](#)  
[HUMAN ANTI TRASTUZUMAB \(HCA167\)](#)  
[HUMAN ANTI TRASTUZUMAB \(HCA168\)](#)  
[HUMAN ANTI TRASTUZUMAB \(HCA169\)](#)  
[HUMAN ANTI TRASTUZUMAB \(HCA176\)](#)  
[HUMAN ANTI TRASTUZUMAB:HRP \(HCA176P\)](#)  
[HUMAN ANTI TRASTUZUMAB \(HCA177\)](#)  
[HUMAN ANTI TRASTUZUMAB:HRP \(HCA177P\)](#)  
[HUMAN ANTI TRASTUZUMAB \(DRUG/TARGET COMPLEX\) \(HCA263\)](#)  
[HUMAN ANTI TRASTUZUMAB \(HCA270\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>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<br>Fax: +44 (0)1865 852 739<br>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<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
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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](https://bio-rad-antibodies.com/datasheets)

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