

Datasheet: MCA6092

**BATCH NUMBER 161428**

<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>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
<b>Specificity</b>	<b>Human Anti-ErbB2 antibody, clone 4D5-8</b> 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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<b>Purity</b>	>98% by SDS PAGE
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<b>Further Reading</b>	1. Pivot, X. <i>et al.</i> (2015) Challenges in the implementation of trastuzumab biosimilars: an expert panel's recommendations. <a href="#">Anticancer Drugs. 26 (10): 1009-16.</a>
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<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>
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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20463 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6092">https://www.bio-rad-antibodies.com/SDS/MCA6092</a> 20463
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<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.
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<b>Regulatory</b>	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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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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