

## Datasheet: MCA1788T

**BATCH NUMBER 171001**

<b>Description:</b>	RAT ANTI HUMAN HER2/neu
<b>Specificity:</b>	HER2/neu
<b>Other names:</b>	CD340
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ICR55
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	25 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).

	<b>Yes</b>	<b>No</b>	<b>Not Determined</b>	<b>Suggested Dilution</b>
Flow Cytometry	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

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>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> )

<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P04626</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2064</a>    ERBB2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HER2, MLN19, NEU, NGL
<b>RRID</b>	AB_2099253
<b>Specificity</b>	<p><b>Rat anti Human HER2/neu antibody, clone ICR55</b> recognizes epitope E of human HER2/neu, otherwise known as CD340 and c-ErbB-2, a proto-oncogene expressed at the cell surface of a range of tumor cells, often associated with poor prognosis, and an increased risk of metastasis.</p> <p>HER2/neu is used in conjunction with antibodies recognizing both Estrogen and Progesterone receptors, for the classification of breast cancer tumors, and to determine patient prognosis and course of treatment.</p> <p>Excessive HER2/neu is present in around 20% to 25% of invasive breast cancers, referred to as HER2-positive cancer, and can help determine whether drugs such as trastuzumab (Herceptin) or lapatinib (Tykerb), might be beneficial.</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>Dean, C.J. <i>et al.</i> (1993) Rat MAbs to the product of the c-erbB-2 proto-oncogene for diagnosis and therapy in breast cancer. <a href="#">Cell Biophys. 22 (1-3): 111-27.</a></li> <li>Shah, A.J. <i>et al.</i> (2014) Non-invasive molecular profiling of cancer using photoacoustic imaging of functionalized gold nanorods <a href="#">Proc. of SPIE Vol. 8943, 89435G</a></li> </ol>
<b>Further Reading</b>	1. Styles, J.M. <i>et al.</i> (1990) Rat monoclonal antibodies to the external domain of the product of the C-erbB-2 proto-oncogene. <a href="#">Int J Cancer. 45 (2): 320-4.</a>
<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 #10040 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/MCA1788T>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight@800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</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://www.bio-rad-antibodies.com/datasheets)  
'M438190:250407'

Printed on 20 May 2025

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