

## Datasheet: MCA1788A488

<b>Description:</b>	RAT ANTI HUMAN HER2/neu:Alexa Fluor®488
<b>Specificity:</b>	HER2/neu
<b>Other names:</b>	CD340
<b>Format:</b>	ALEXA FLUOR® 488
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ICR55
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS/1ml

## 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
Flow Cytometry	▪			Neat - 1/10

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 conjugated to Alexa Fluor® 488 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®488	495	519
<b>Preparation</b>	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P04626</a> <a href="#">Related reagents</a>		
	<b>Entrez Gene:</b> <a href="#">2064</a> ERBB2 <a href="#">Related reagents</a>		

<b>Synonyms</b>	HER2, MLN19, NEU, NGL
<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 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>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></li> <li>2. 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>3. 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>Storage</b>	<p>Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or <a href="mailto:outlicensing@thermofisher.com">outlicensing@thermofisher.com</a>
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA6005A488\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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