

Datasheet: MCA1788A488

BATCH NUMBER 1808

Description:	RAT ANTI HUMAN HER2/neu:Alexa Fluor®488
Specificity:	HER2/neu
Other names:	CD340
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	ICR55
Isotype:	IgG2a
Quantity:	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.

	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.

Target Species	Human		
Product Form	Purified IgG conjugated to Alexa Fluor® 488 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519
Preparation	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		

**External Database
Links**

UniProt:

[P04626](#) [Related reagents](#)

Entrez Gene:

[2064](#) ERBB2 [Related reagents](#)

Synonyms

HER2, MLN19, NEU, NGL

Specificity

Rat anti Human HER2/neu antibody, clone ICR55 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.

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.

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.

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Styles, J.M. *et al.* (1990) Rat monoclonal antibodies to the external domain of the product of the C-erbB-2 proto-oncogene. [Int J Cancer. 45 \(2\): 320-4.](#)
2. Dean, C.J. *et al.* (1993) Rat MAbs to the product of the c-erbB-2 proto-oncogene for diagnosis and therapy in breast cancer. [Cell Biophys. 22 \(1-3\): 111-27.](#)
3. Shah, A.J. *et al.* (2014) Non-invasive molecular profiling of cancer using photoacoustic imaging of functionalized gold nanorods [Proc. of SPIE Vol. 8943, 89435G](#)

Storage

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.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA1788A488>
10041

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

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

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

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: 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

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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)

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