

Datasheet: MCA1788

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

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

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

External Database

Links

UniProt:

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

Entrez Gene:

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

Synonyms

HER2, MLN19, NEU, NGL

RRID

AB_322791

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](#)
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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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@650 , DyLight@800
Goat Anti Rat IgG (STAR72...)	HRP
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin

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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

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