

Datasheet: MCA1788A488

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:	lgG2a
Quantity:	100 TESTS/1ml

Product Details

Applications	This product has been reported to work in the following applications. This information derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further						
	rad antibodies com/pro	For general protocol recommendations, please visit <u>www.blo-</u>					
	rad-antibodies.com/pre	Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	•			Neat - 1/10		
	Where this product has	s not been tes	ted for us	e in a particular te	echnique 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 Ma	ıx (nm) E	imission Max (nm)	<u> </u>		
	Alexa Fluor®488	495		519			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin						
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml						

External Database Links	UniProt: <u>P04626</u> <u>Related reagents</u> 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 10 μ I of the suggested working dilution to label 1x10 ⁶ cells in 100 μ I
References	 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. <u>Cell Biophys. 22 (1-3): 111-27.</u> Shah, A.J. <i>et al.</i> (2014) Non-invasive molecular profiling of cancer using photoacoustic imaging of functionalized gold nanorods <u>Proc. of SPIE Vol. 8943, 89435G</u>
Further Reading	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. <u>Int J Cancer. 45 (2): 320-4.</u>
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. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
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Regulato	ory	For research purposes only					
Relate	d Produc	sts					
Recom	mended Us	eful Reage	ents				
HUMAN S	EROBLOCK	<u>(BUF070A)</u>					
HUMAN S	EROBLOCK	<u>(BUF070B)</u>					
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	Email: antibody	_sales_us@bio-ra	d.com	Email: antibody_sales_uk@b	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 'M438600:250520'

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