Datasheet: MCA1784 BATCH NUMBER 147834

Description:	RAT ANTI HUMAN EGF RECEPTOR
Specificity:	EGF R
Other names:	EPIDERMAL GROWTH FACTOR RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ICR10
Isotype:	lgG2a
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 <u>www.bio-</u>					
	rau-antibodies.com/proto	Yes	No	Not Determined	Suggested Dilution	
	Flow Cvtometrv	•	110	Not Botoniniou	1/50 - 1/100	
	Immunohistology - Frozen	•				
	Immunohistology - Paraffin	-				
	ELISA			•		
	Immunoprecipitation	•				
	Western Blotting					
	Immunofluorescence	-				
	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 salin	е				
Preservative Stabilisers	0.09% Sodium Azide					

Carrier Free	Yes			
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml			
Immunogen	Extracellular domain of human EGF-receptor from head and neck carcinoma.			
External Database Links	UniProt: <u>P00533</u> <u>Related reagents</u> Entrez Gene: <u>1956</u> EGFR <u>Related reagents</u>			
Synonyms	ERBB1			
RRID	AB_322787			
Specificity	Rat anti Human EGF Receptor antibody, clone ICR10 recognizes the human epidermal growth factor receptor (EGF-R), which is over expressed in a high proportion of breast cancer cells and in a range of other carcinomas.			
	High level expression of EGFR is often associated with advanced disease and poor prognosis.			
	Rat anti Human EGF Receptor antibody, clone ICR10 binds to epitope B from EGFR (<u>Lottaz <i>et al.</i> 2010</u> and <u>Moditahedi <i>et al.</i> 1993</u>) and has an affinity of 6.7 x 10 ⁻⁹ M.			
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.			
Histology Positive Control Tissue	Breast Carcinoma			
References	 Lottaz, C. <i>et al.</i> (2010) Transcriptional Profiles of CD133+ and CD133- Glioblastoma- Derived Cancer Stem Cell Lines Suggest Different Cells of Origin <u>Cancer Res. 70:</u> 2030-40. Modjtahedi, H. <i>et al.</i> (1993) Antitumor activity of combinations of antibodies directed against different epitopes on the extracellular domain of the human EGF receptor. <u>Cell Biophys. 22 (1-3): 129-46.</u> Modjtahedi, H. <i>et al.</i> (2012) Immunohistochemical discrimination of wild-type EGFR from EGFRVIII in fixed tumour specimens using anti-EGFR mAbs ICR9 and ICR10. <u>Br J Cancer. 106 (5): 883-8.</u> Grinberg, O. <i>et al.</i> (2013) Antibody modified Bovine Serum Albumin microspheres for targeted delivery of anticancer agent Gemcitabine <u>Polymers for Advanced Technologies.</u> 24 (3): 294-299. Gilcrease, M.Z. <i>et al.</i> (2009) Alpha6beta4 integrin crosslinking induces EGFR clustering and promotes EGF-mediated Rho activation in breast cancer. <u>J Exp Clin Cancer Res. 28:</u> <u>67.</u> 			
	o. Hiburgs, I. et al. (2015) Human HLA-G+ extravilious trophoblasts: Immune-activating			

	cells that interact with decidual leukocytes. <u>Proc Natl Acad Sci</u> 7. Tilburgs, T. <i>et al.</i> (2015) The HLA-G cycle provides for both at the maternal-fetal interface. <u>Proc Natl Acad Sci U S A. 112 (</u> 8. Khelwatty, S.A. <i>et al.</i> (2015) Acquired resistance to anti-EGF cells is accompanied by an increased EGFR expression, HER- sensitivity to pan HER blockers. <u>Br J Cancer. 113 (7): 1010-9.</u>	<u>U S A. 112 (23): 7219-24.</u> NK tolerance and immunity <u>43): 13312-7.</u> ⁻ R mAb ICR62 in cancer 2/HER-3 signalling and	
Storage	Store at +4°C or at -20°C if preferred.		
	This product should be stored undiluted.		
	Storage in frost free freezers is not recommended. 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		
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1784 10040		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16)	DyLight®800	
Rabbit Anti Rat IgG (STAR17)	<u>FITC</u>	
Goat Anti Rat IgG (STAR72)	HRP	
Goat Anti Rat IgG (STAR69)	<u>FITC</u>	
Goat Anti Rat IgG (STAR73)	RPE	
Rabbit Anti Rat IgG (STAR21)	HRP	
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71) <u>DyLight®550</u> , <u>DyLight®650</u> , <u>DyLight®800</u>		
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 'M373432:200911'

Printed on 22 Mar 2024

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