

Datasheet: MCA1784F

Description:	RAT ANTI HUMAN EGF RECEPTOR:FITC
Specificity:	EGF R
Other names:	EPIDERMAL GROWTH FACTOR RECEPTOR
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	ICR10
Isotype:	IgG2a
Quantity:	0.1 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	■			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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein A 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 0.1 mg/ml		

Immunogen	Extracellular domain of human EGF-receptor from head and neck carcinoma.
External Database Links	<p>UniProt: P00533 Related reagents</p> <p>Entrez Gene: 1956 EGFR Related reagents</p>
Synonyms	ERBB1
RRID	AB_324284
Specificity	<p>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.</p> <p>High level expression of EGFR is often associated with advanced disease and poor prognosis.</p> <p>Rat anti Human EGF Receptor antibody, clone ICR10 binds to epitope B from EGFR (Lottaz et al. 2010 and Modjtahedi et al. 1993) and has an affinity of 6.7×10^{-9} M.</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in 100µl
References	<ol style="list-style-type: none"> 1. 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. Cell Biophys. 22 (1-3): 129-46. 2. Gilcrease, M.Z. <i>et al.</i> (2009) Alpha6beta4 integrin crosslinking induces EGFR clustering and promotes EGF-mediated Rho activation in breast cancer. J Exp Clin Cancer Res. 28: 67. 3. Lottaz, C. <i>et al.</i> (2010) Transcriptional Profiles of CD133+ and CD133- Glioblastoma-Derived Cancer Stem Cell Lines Suggest Different Cells of Origin Cancer Res. 70: 2030-40. 4. 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. Br J Cancer. 106 (5): 883-8. 5. Grinberg, O. <i>et al.</i> (2013) Antibody modified Bovine Serum Albumin microspheres for targeted delivery of anticancer agent Gemcitabine Polymers for Advanced Technologies. 24 (3): 294-299. 6. Khelwatty, S.A. <i>et al.</i> (2015) Acquired resistance to anti-EGFR mAb ICR62 in cancer cells is accompanied by an increased EGFR expression, HER-2/HER-3 signalling and sensitivity to pan HER blockers. Br J Cancer. 113 (7): 1010-9. 7. Tilburgs, T. <i>et al.</i> (2015) The HLA-G cycle provides for both NK tolerance and immunity at the maternal-fetal interface. Proc Natl Acad Sci U S A. 112 (43): 13312-7. 8. Tilburgs, T. <i>et al.</i> (2015) Human HLA-G+ extravillous trophoblasts: Immune-activating cells that interact with decidual leukocytes. Proc Natl Acad Sci U S A. 112 (23): 7219-24.

Further Reading	1. Modjtahedi, H. & Dean, C. (1994) The receptor for EGF and its ligands - expression, prognostic value and target for therapy in cancer (review). Int J Oncol. 4 (2): 277-96.
Storage	<p>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.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1784F10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:FITC \(MCA6005F\)](#)

Recommended Useful Reagents

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

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

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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](https://www.bio-rad-antibodies.com/datasheets)
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