

Datasheet: MCA1784F

**BATCH NUMBER 162071**

<b>Description:</b>	RAT ANTI HUMAN EGF RECEPTOR:FITC
<b>Specificity:</b>	EGF R
<b>Other names:</b>	EPIDERMAL GROWTH FACTOR RECEPTOR
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ICR10
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/10

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.

<b>Target Species</b>	Human						
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
FITC	490	525					
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
<b>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative</b>	0.09% Sodium Azide						
<b>Stabilisers</b>	1% Bovine Serum Albumin						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml						

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

**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1784F>  
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**Regulatory** For research purposes only

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## 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://bio-rad-antibodies.com/datasheets)  
'M395619:220519'

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