

# Datasheet: MCA1784PE

**BATCH NUMBER 156702**

<b>Description:</b>	RAT ANTI HUMAN EGF RECEPTOR:RPE
<b>Specificity:</b>	EGF R
<b>Other names:</b>	EPIDERMAL GROWTH FACTOR RECEPTOR
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ICR10
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS

## 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	▪			Neat

Where this antibody 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 antibody for use in their own systems using appropriate negative/positive controls.

Target Species	Human		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein G supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
	1% Bovine Serum Albumin		

5% Sucrose

Immunogen	Extracellular domain of human EGF-receptor from head and neck carcinoma.
External Database Links	<b>UniProt:</b> <a href="#">P00533</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">1956</a> EGFR <a href="#">Related reagents</a>
Synonyms	ERBB1
RRID	AB_324662
Specificity	<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>
Flow Cytometry	Use 10ul of the suggested working dilution to label $10^6$ cells in 100ul.
References	<ol style="list-style-type: none"><li>1. 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>2. 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>3. 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>4. 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>5. 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>6. 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>7. 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>8. 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</li></ol>

sensitivity to pan HER blockers. [Br J Cancer. 113 \(7\): 1010-9.](#)

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**Storage**

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #20487 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA1784PE>  
20487

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA6005PE\)](#)

### 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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