

Datasheet: MCA1784PE

BATCH NUMBER 154823

Description:	RAT ANTI HUMAN EGF RECEPTOR:RPE
Specificity:	EGF R
Other names:	EPIDERMAL GROWTH FACTOR RECEPTOR
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	ICR10
Isotype:	IgG2a
Quantity:	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.

	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	UniProt: P00533 Related reagents Entrez Gene: 1956 EGFR Related reagents
Synonyms	ERBB1
RRID	AB_324662
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 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	<ol style="list-style-type: none">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 Cancer Res. 70: 2030-40.2. 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. Cell Biophys. 22 (1-3): 129-46.3. 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. Br J Cancer. 106 (5): 883-8.4. 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): 294-299.5. 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: 67.6. 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): 7219-24.7. 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. 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.](#)

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.

Guarantee

12 months from date of despatch

Health And Safety Information

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

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

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

Recommended Useful Reagents

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

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

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