

Datasheet: MCA1784A647

Description:	RAT ANTI HUMAN EGF RECEPTOR:Alexa Fluor® 647
Specificity:	EGF R
Other names:	EPIDERMAL GROWTH FACTOR RECEPTOR
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	ICR10
Isotype:	IgG2a
Quantity:	100 TESTS/1ml

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 - 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. 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 Alexa Fluor 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein G 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 0.05 mg/ml		

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

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 ([Lottaz et al. 2010](#) and [Modjtahedi et al. 1993](#)) and has an affinity of 6.7×10^{-9} M.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10^6 cells in 100ul

References

1. Lottaz, C. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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.](#)
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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.

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA6005A647\)](#)

Recommended Useful Reagents

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

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

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