



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## Rat Anti-Human Epithelial Growth Factor Receptor (EGFR), FITC-labeled

**Catalog No.**  
DS-MB-01196

**Target Species**  
Human

**Isotype**  
IgG2a

### Preparation

**Synonyms:** ERBB1

Purified IgG prepared by ion exchange chromatography

**Immunogen:** Extracellular domain of human EGF-receptor from head and neck carcinoma

### Formulation

**Product Form:** Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

**Product Type:** Monoclonal Antibody

**Preservative Stabilizers:** 0.09% Sodium Azide, 1% Bovine Serum Albumin

**Approx. Protein Concentrations:** IgG concentration 0.1 mg/ml

### Specificity

DS-MB-01196 recognises 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.

DS-MB-01196 binds to epitope B from EGFR (1, 2) and has an affinity of  $6.7 \times 10^{-9}$  M.

### Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry (1)	•			1/10
Elisa			•	
Western Blotting			•	

**Note:** Other applications have not been tested. Optimal dilutions should be determined.  
(1) Use 10ul of the suggested working dilution to label  $10^6$  cells in 100ul.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### **Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 18 months from date of dispatch.

### **Reference**

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.* 1993. 22 (1-3): 129-146.

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