**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for SM1334P

## EGFR Rat Monoclonal Antibody [Clone ID: ICR10]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | ICR10 |
| **Applications:** | FC, IHC, IP, WB |
| **Recommended Dilution:** | Immunoprecipitation.<br>Western blotting.<br>Flow cytometry: 1/50 - 1/100; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl.<br>Immunohistochemistry on frozen sections.<br>Recommended positive control: Breast carcinoma. |
| **Reactivity:** | Human |
| **Host:** | Rat |
| **Isotype:** | IgG2a |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Extracellular domain of human Epidermal Growth Factor Receptor (EGFR) from head and neck carcinoma. |
| **Specificity:** | This antibody recognises the 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. This antibody binds to epitope B from EGFR (1, 2) and has an affinity of 6.7 x 10e-9 M. |
| **Formulation:** | PBS, pH7.4 containing 0.09% Sodium Azide<br>State: Purified<br>State: Liquid purified IgG |
| **Concentration:** | lot specific |
| **Purification:** | Ion exchange chromatography |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |

View online »

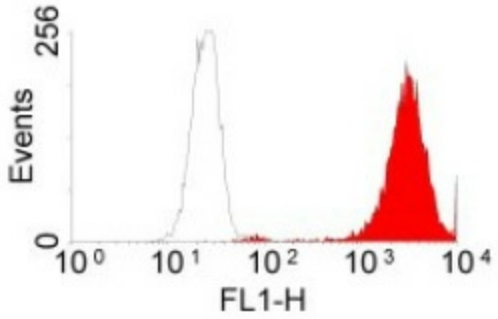
**Gene Name:** epidermal growth factor receptor

**Database Link:** Entrez Gene 1956 Human
P00533

**Background:** Protein kinases are enzymes that transfer a phosphate group from a phosphate donor onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. The protein kinase family is one of the largest families of proteins in eukaryotes, classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. Epidermal Growth factor receptor (EGFR) is the prototype member of the type 1 receptor tyrosine kinases. EGFR overexpression in tumors indicates poor prognosis and is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, stomach and in squamous cell carcinoma.

**Synonyms:** Epidermal growth factor receptor, EGF Receptor, erbB-1, c-ErbB-1

## Product images:




Staining of A431 cells with RAT ANTI HUMAN EGF RECEPTOR visualised with F (ab')2 RABBIT ANTI RAT IgG:FITC.