

Technical Data Sheet

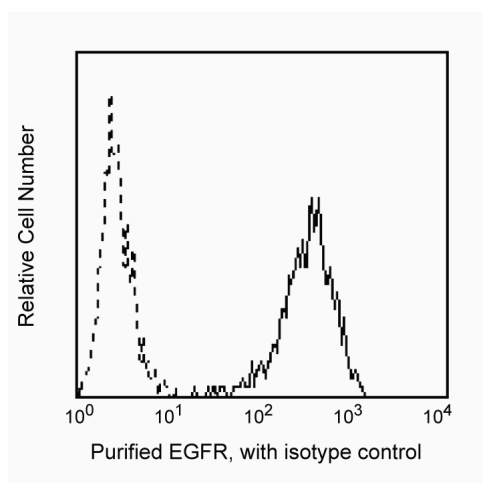
Purified Mouse Anti-Human EGF Receptor

Product Information

| | |
|-------------------------|--|
| Material Number: | 555996 |
| Size: | 0.1 mg |
| Concentration: | 0.5 mg/ml |
| Clone: | EGFR.1 |
| Isotype: | Mouse IgG2b, κ |
| Reactivity: | QC Testing: Human |
| Workshop: | NA |
| Storage Buffer: | Aqueous buffered solution containing $\leq 0.09\%$ sodium azide. |

Description

Reacts with epidermal growth factor receptor (EGFR), a glycoprotein of approximately 170 kDa, expressed on most cells. It consists of a glycosylated extracellular domain which recognizes epidermal growth factor (EGF), a transmembrane domain, and an intracellular domain with tyrosine-kinase activity essential for signal transduction. EGFR plays an important role in the growth and differentiation of many cellular types. Transforming growth factor α (TGF α) and vaccinia virus growth factor also interact with EGFR.



Profile of A431, an epidermoid carcinoma cell line, analyzed on a FACScan (BDIS, San Jose, CA).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C.

Application Notes

Application

| | |
|-------------------------|---------------------------|
| Flow cytometry | Routinely Tested |
| Fluorescence microscopy | Tested During Development |

Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|----------------|---|--------|------------|
| 555740 | Purified Mouse IgG2b κ Isotype Control | 0.1 mg | 27-35 |
| 555988 | FITC Goat Anti-Mouse IgG/IgM | 0.5 mg | Polyclonal |

BD Biosciences

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmlingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

- Callard R, Gearing A. Callard R, Gearing A. *The Cytokine Facts Book*. San Diego: Academic Press; 1994.(Biology)
- Fernandez A, Spitzer E, Perez R. A new monoclonal antibody for detection of EGF-receptors in western blots and paraffin-embedded tissue sections. *J Cell Biol.* 1992; 49(2):157-165.(Biology)
- Messa C, Russo F, Notarnicola M, Di Leo A. Demonstration of epidermal growth factor receptor in colorectal adenocarcinoma by enzyme immunoassay. *Digestion.* 1994; 55(2):103-107.(Biology)
- Troalen F, Maudelondé T, Montcourrier P, Bohuon C, Delarue JC. Characterization of two monoclonal antibodies against the COOH-terminal part of the human epidermal growth factor receptor and potential clinical use. *J Immunol Methods.* 1991; 143(2):175-186.(Biology)