

Technical Data Sheet

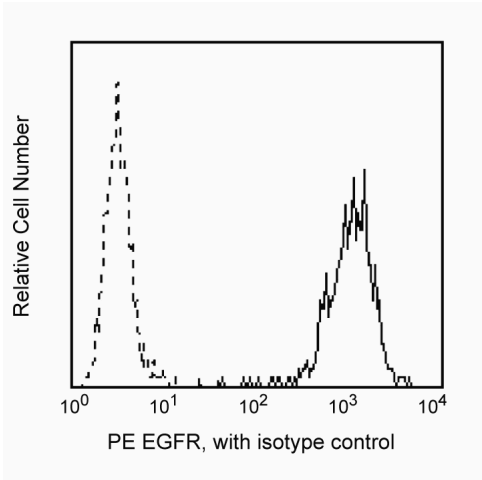
PE Mouse Anti-Human EGF Receptor

Product Information

Material Number:	555997
Size:	100 tests
Vol. per Test:	20 µl
Clone:	EGFR.1
Isotype:	Mouse IgG2b, κ
Reactivity:	QC Testing: Human
Workshop:	NA
Storage Buffer:	Aqueous buffered solution containing BSA and ≤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(TGFα) and vaccinia virus growth factor also interact with EGFR.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555743	PE Mouse IgG2b κ Isotype Control	100 tests	27-35

Product Notices

- This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10⁶ cells in a 100-µl experimental sample (a test).
- Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. 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.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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)