Technical Data Sheet

Purified Mouse Anti-EGF Receptor

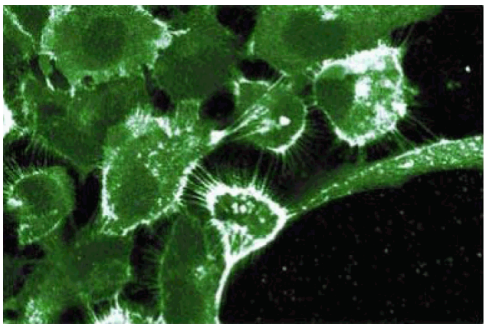
Product Information

Material Number:	**610016**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	13/EGFR
Immunogen:	Human EGF Receptor aa. 1020-1046
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse
Target MW:	180 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Epidermal Growth Factor (EGF) elicits a variety of cellular responses that are initiated by EGF receptor (EGF-R) binding and activation of intrinsic tyrosine kinase activity. Following ligand binding, EGF receptor is autophosphorylated and, in turn, phosphorylates several other endogenous proteins including phospholipase Cγ. These events initiate a number of intracellular responses that include increased levels of intracellular Ca2+ and transient expression of the nuclear oncogene products c-Myc and c-Fos.

Western blot analysis of EGF Receptor on A431 lysate. *Lane 1: 1:2500, lane 2: 1: 5000, lane 3: 1: 10000 dilution of anti-EGF Receptor.*



Immunofluorescent staining of A431 cells with anti-EGF Receptor antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20° C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Tested During Development
Immunohistochemistry	Not Recommended

BD Biosciences

www.bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit **www.bdbiosciences.com/how_to_order/**

Suggested Companion Products

Catalog Number	Name	Size	Clone
611447	A431 Cell Lysate	500 µg	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
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.

References

Deugnier MA, Faraldo MM, Janji B, Rousselle P, Thiery JP, Glukhova MA.. EGF controls the in vivo developmental potential of a mammary epithelial cell line possessing progenitor properties.. *J Cell Biol.* 2002; 159(3):453-463.(Clone-specific: Flow cytometry)

Ford MG, Valle JD, Soroka CJ, Merchant JL.. EGF receptor activation stimulates endogenous gastrin gene expression in canine G cells and human gastric cell cultures.. *J Clin Invest.* 1997; 99(11):2762-2771.(Clone-specific: Immunohistochemistry)

Golubovskaya V, Beviglia L, Xu LH, Earp HS 3rd, Craven R, Cance W.. Dual inhibition of focal adhesion kinase and epidermal growth factor receptor pathways cooperatively induces death receptor-mediated apoptosis in human breast cancer cells.. *J Biol Chem.* 2002; 277(41):38978-38987.(Clone-specific: Immunofluorescence, Immunoprecipitation, Western blot)

Kizaka-Kondoh S, Matsuda M, Okayama H.. CrkII signals from epidermal growth factor receptor to Ras.. *Proc Natl Acad Sci U S A.* 1996; 93(22):12177-12182.(Clone-specific: Western blot)

Ward CW, Gough KH, Rashke M, Wan SS, Tribbick G, Wang J.. Systematic mapping of potential binding sites for Shc and Grb2 SH2 domains on insulin receptor substrate-1 and the receptors for insulin, epidermal growth factor, platelet-derived growth factor, and fibroblast growth factor.. *J Biol Chem.* 1996; 271(10):5603-5609.(Biology)