

FITC anti-human EGFR Antibody

Catalog# / Size	386305 / 25 tests 386306 / 100 tests
Clone	A21043C
Regulatory Status	RUO
Other Names	Proto-oncogene c-ErbB-1, Receptor tyrosine-protein kinase erbB-1, HER1
Isotype	Mouse IgG1, κ
Description	Epidermal growth factor receptor (EGFR) is a transmembrane glycoprotein and member of the protein kinase superfamily that regulates cell growth and differentiation. EGFR binds EGF, TGF- α , amphiregulin, betacellulin, heparin-binding EGF-like growth factor, GP30, and vaccinia virus growth factor - all members of the EGF family. Ligand binding induces EGFR dimerization and autophosphorylation, initiating the MAPK, Akt, and JNK signaling pathways. EGFR is expressed by epithelial and endothelial cells and is frequently expressed by epithelial carcinomas.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant fragment of EGFR, aminoacids 25-138
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm)
RRID	AB_3675105 (BioLegend Cat. No. 386305) AB_3675105 (BioLegend Cat. No. 386306)

Antigen Details

Structure	Member of the protein kinase superfamily; transmembrane glycoprotein; ligand binding induces dimerization and autophosphorylation
Distribution	Epithelial cells and endothelial cells; frequently found in epithelial carcinomas
Function	Controls cell growth and differentiation

Ligand/Receptor	Members of the epidermal growth factor (EGF) family such as EGF, TGF- α , amphiregulin, betacellulin, heparin-binding EGF-like growth factor, GP30 and vaccinia virus growth factor
Cell Type	Endothelial cells, Epithelial cells
Biology Area	Cell Biology, Cell Cycle/DNA Replication, Immunology, Innate Immunity, Neuroscience, Synaptic Biology
Molecular Family	CD Molecules, Growth Factors
Antigen References	<ol style="list-style-type: none"> 1. da Cunha Santos G, <i>et al.</i> 2011. <i>Annu Rev Pathol.</i> 6:49-69. 2. Gusterson BA and Hunter KD. 2009. <i>Lancet Oncol.</i> 10:522-7. 3. Mano M and Humblet Y. 2008. <i>Nat Clin Pract Oncol.</i> 5:415-25. 4. Pao W and Chmielecki J. 2010. <i>Nat Rev Cancer.</i> 10:760-74.
Gene ID	1956

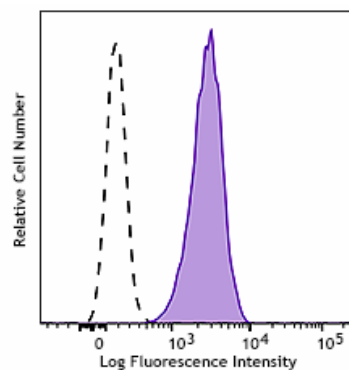
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human EGFR, PE anti-human EGFR, FITC anti-human EGFR, APC anti-human EGFR, Spark UV™ 387 anti-human EGFR Antibody

Product Data



Human cervical cancer cell line HeLa was stained with anti-human EGFR (clone A21043C) FITC (filled histogram) or mouse IgG1, κ FITC isotype control (open histogram).

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