EGFR (Epidermal Growth Factor Receptor) Antibody

Mouse Monoclonal Antibody [Clone GFR450]

Catalog No	Format	Size
1956-MSM1-CF488-100T	Purified Ab conjugated to CF488	0.5 ml at 100ug/ml

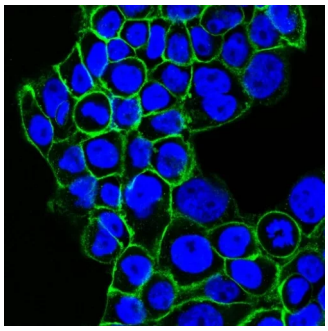
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details

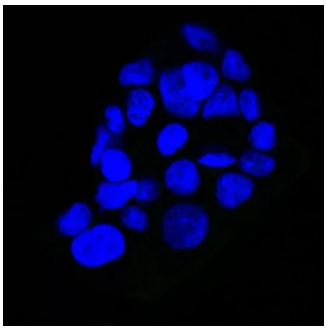
Clone	GFR450
Gene Name	EGFR
Immunogen	Recombinant extracellular domain of human EGFR protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	~170kDa (wild type) and ~145kDa (vIII variant)
Cellular Localization	Cell surface
Species Reactivity	Human
Positive Control	A431 cells. Human breast or bladder cancer.

**Optimal dilution for a specific application should be determined.*

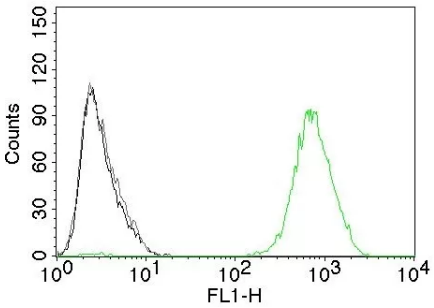
Product Images for EGFR (Epidermal Growth Factor Receptor) Antibody



Confocal Immunofluorescent analysis of A431 cells using CF488-labeled EGFR Monoclonal Antibody (GFR450) (Green). DAPI was used to stain the cell nuclei (blue).



Confocal Immunofluorescent analysis of A431 cells using CF488-labeled Isotype Control MAb (IgG2a) (Green). DAPI was used to stain the cell nuclei (blue). (Negative Control)



Flow Cytometry of human EGFR on A431 cells. Black: cells alone; Grey: Isotype Control; Green: CF488-labeled EGFR Monoclonal Antibody (GFR450).

Specificity & Comments

This MAb recognizes a protein of 170kDa, identified as EGFR. EGFR is type I receptor tyrosine kinase with sequence homology to erbB-1, -2, -3 -4 or HER-1, -2, -3 -4. It binds to Epidermal Growth Factor (EGF), Transforming Growth Factor-a (TGF-a), Heparin-binding EGF (HB-EGF), amphiregulin, betacellulin and epiregulin. EGFR is overexpressed in tumors of breast, brain, bladder, lung, gastric, head neck, esophagus, cervix, vulva, ovary, and endometrium. It is predominantly present in squamous cell carcinomas.

Supplied As

Antibody Purified from Bioreactor Concentrate by Protein A/G and conjugated to various reporter molecules. Prepared in 10mM PBS with 0.05% BSA and 0.05% azide. Contact us if you require this Ab in a different format.

Storage and Stability

Antibody with azide - store at 4 to 8°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

AKT Signaling, Autophagy, Bladder Cancer, Breast Cancer, Cancer, Cardiovascular, Colon Cancer, Developmental Biology, Infectious Disease, MAPK Signaling, Signal Transduction, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.