

### 36-1097: Monoclonal Antibody to EGFR (Epidermal Growth Factor Receptor)(Clone : Clone : GFR450)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	GFR450
<b>Application :</b>	FACS,IF
<b>Reactivity :</b>	Human
<b>Gene :</b>	EGFR
<b>Gene ID :</b>	1956
<b>Uniprot ID :</b>	P00533
<b>Format :</b>	Purified
<b>Alternative Name :</b>	EGFR,ERBB,ERBB1,HER1
<b>Isotype :</b>	Mouse IgG2a, kappa
<b>Immunogen Information :</b>	Recombinant extracellular domain of human EGFR protein

#### Description

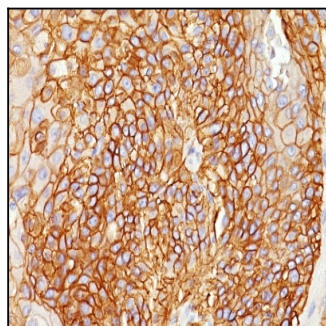
This MAb recognizes a protein of 170kDa, identified as EGFR. EGFR is type I receptor tyrosine kinase with sequence homology to erbB-1, -2, -3 -4 or HER-1, -2, -3 -4. It binds to Epidermal Growth Factor (EGF), Transforming Growth Factor- $\alpha$  (TGF- $\alpha$ ), Heparin-binding EGF (HB-EGF), amphiregulin, beta cellulin 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.

#### Product Info

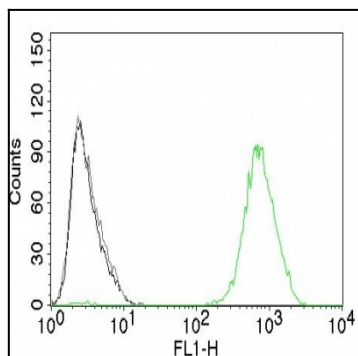
<b>Amount :</b>	100 $\mu$ g
<b>Purification :</b>	Affinity Chromatography
<b>Content :</b>	100 $\mu$ g in 500 $\mu$ l PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

#### Application Note

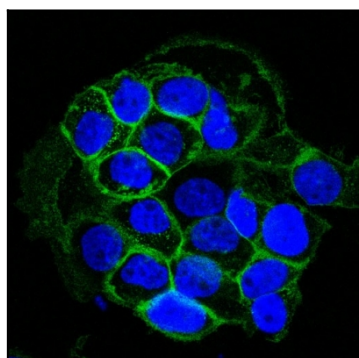
Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml);



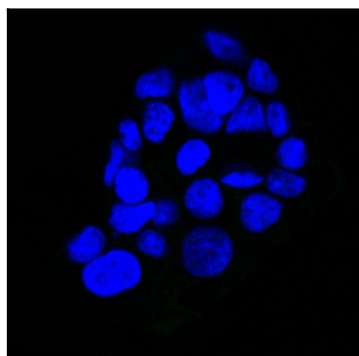
Formalin-fixed, paraffin-embedded Lung Squamous Cell Carcinoma stained with EGFR Monoclonal Antibody (GFR450).



Flow Cytometry of human EGFR on A431 Cells. Black: Cells alone; Grey: Isotype Control; Green: AF488-labeled EGFR Monoclonal Antibody (GFR450).



Confocal Immunofluorescent analysis of A431 cells using AF488-labeled EGFR Monoclonal Antibody (GFR450) (Green). DAPI was used to stain the cell nuclei (blue).



Confocal Immunofluorescent analysis of A431 cells using AF488-labeled Isotype Control Monoclonal Antibody (IgG2a) (Green). DAPI was used to stain the cell nuclei (blue). (Negative Control)