

Datasheet for ABIN6939288  
**anti-EGFR antibody (Extracellular Domain)**



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5 Images

## Overview

Quantity:	100 µg
Target:	EGFR
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EGFR antibody is un-conjugated
Application:	Immunofluorescence (IF), Flow Cytometry (FACS)

## Product Details

Immunogen:	Recombinant extracellular domain of human EGFR protein
Clone:	GFR450
Isotype:	IgG2a kappa
Specificity:	This MAb recognizes a protein of 170 kDa, 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, 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.
No Cross-Reactivity:	Mouse (Murine)
Purification:	Purified by Protein A/G

## Target Details

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Target:	EGFR
Alternative Name:	EGFR ( <a href="#">EGFR Products</a> )
Molecular Weight:	~170kDa (wild type) and ~145kDa (vIII variant)
Gene ID:	1956
UniProt:	<a href="#">P00533</a>
Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Stem Cell Maintenance</a> , <a href="#">Hepatitis C</a> , <a href="#">Positive Regulation of Response to DNA Damage Stimulus</a> , <a href="#">Interaction of EGFR with phospholipase C-gamma</a> , <a href="#">Thromboxane A2 Receptor Signaling</a> , <a href="#">EGFR Downregulation</a> , <a href="#">S100 Proteins</a>

## Application Details

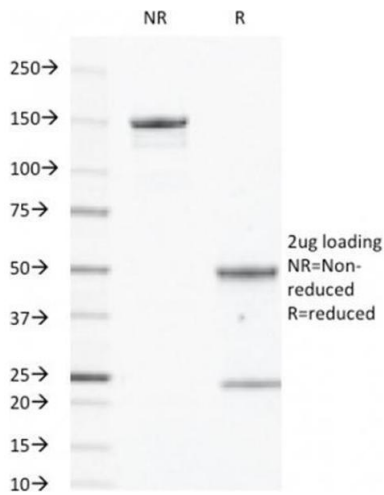
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Application Notes:	Positive Control: A431 cells, Breast or Bladder cancer. Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (1-2 µg/mL), Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

## Handling

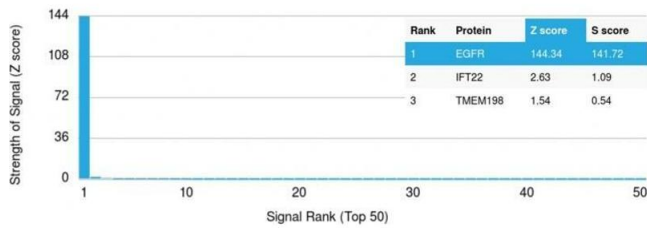
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Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



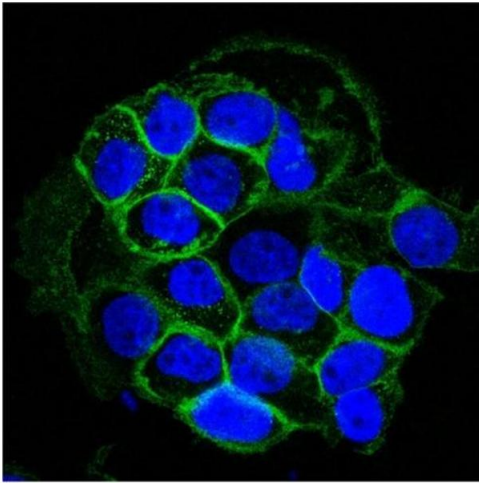
### SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified EGFR Mouse Monoclonal Antibody (GFR/450). Confirmation of Integrity and Purity of Antibody.



### Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using EGFR Mouse Monoclonal Antibody (GFR/450) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



### Immunofluorescence

**Image 3.** Confocal Immunofluorescent analysis of A431 cells using AF488-labeled EGFR Monoclonal Antibody (GFR450) (Green). DAPI was used to stain the cell nuclei (blue).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6939288.