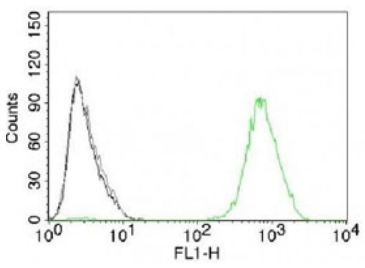
# EGFR Antibody [clone GFR450] (V2105)

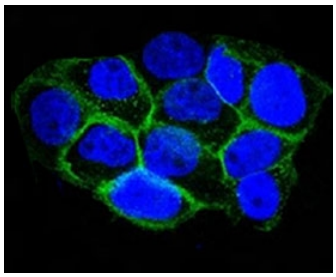
| Catalog No. | Formulation | Size |
|---|---|---|
| V2105-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V2105-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V2105SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

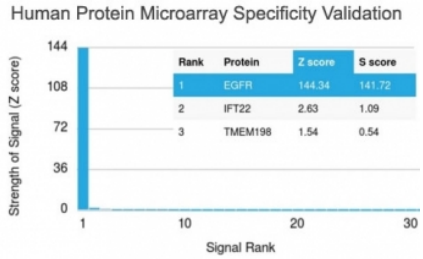
| | |
|---|---|
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2a, kappa |
| **Clone Name** | GFR450 |
| **Purity** | Protein G affinity chromatography |
| **Buffer** | 1X PBS, pH 7.4 |
| **Gene ID** | 1956 |
| **Localization** | Cell surface |
| **Applications** | Flow Cytometry : 1-2ug/10^6 cells<br>Immunofluorescence : 1-2ug/ml |
| **Limitations** | This **EGFR antibody** is available for research use only. |



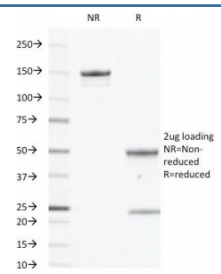

FACS testing of A431 cells with isotype control (gray), without primary antibody (black) and EGFR antibody (green, clone GFR450).



Immunofluorescent staining of A431 cells with Alexa Fluor conjugated EGFR antibody (green, clone GFR450) and DAPI nuclear stain (blue).




Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using EGFR antibody (clone GFR450). These results demonstrate the foremost specificity of the GFR450 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.




SDS-PAGE analysis of purified, BSA-free EGFR antibody (clone GFR450) as confirmation of integrity and purity.

## Description

This antibody recognizes a protein of 170kDa, identified as EGFR. EGFR is type I receptor tyrosine kinase with sequence homology to ErbB2, -3 -4 or HER2, -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.

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the EGFR antibody to be titered up or down for optimal performance.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.

## Immunogen

The immunizing protein for this antibody was recombinant human EGFR.

## Storage

Store the EGFR antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

## Alternate Names

ERBB1; Errp; HER1; mENA; PIG61; Proto-oncogene c-ErbB-1; Receptor Tyrosine Protein Kinase; Urogastrone; wa2; Wa5, EGFR antibody, ERBB1 antibody

## References (1)