



## Anti- human EGFR Mouse Monoclonal Antibody

Clone: UMAB95 REF RU00021

### Intended use

Anti- human EGFR Mouse Monoclonal Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

### Background

EGFR is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer. Multiple alternatively spliced transcript variants that encode different protein isoforms have been found for this gene.

Alternative names: ERBB1; HER1; Epidermal Growth Factor Receptor

### Reagent provided

Anti- human EGFR Mouse Monoclonal Primary Antibody (Clone: UMAB95) is provided in liquid form in 20mM Sodium phosphate, 150mM Sodium chloride, 0.2% BSA, 0.09% Sodium azide, pH 7.4. The isotype of the antibody is IgG1. The total protein concentration is  $0.4 \pm 0.05$  mg/mL.

For Immunohistochemistry the primary antibody may be used at a working dilution of 1:100 – 1:200 for formalin-fixed, paraffin-embedded human tissues, and this can be dependent upon the detection system used. These are guidelines only, and the optimal dilutions should be determined by the individual laboratory.

### Immunogen

Full length recombinant protein of human EGFR(NP\_958440) was produced in HEK293T cell.

### Specificity

The specificity of the anti- human EGFR Mouse Monoclonal Primary Antibody was established on normal human placenta, lung cancer and spleen. The anti-EGFR presented no staining on formalin fixed human spleen, positive staining on normal human placenta and lung cancer using immunohistochemical (IHC) test methods.

### Precautions

1. This product contains sodium azide ( $\text{NaN}_3$ ), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous,  $\text{NaN}_3$  may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
2. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
3. Unused reagents should be disposed of according to local, State, and Federal regulations.
4. Suitability for specific application may vary and it is the responsibility of the end user to determine the appropriate application for use and stability.

### Storage

Store at 2-8°C. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user.

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