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## Product Information

### ANTI-EGF RECEPTOR ANTIBODY

Developed in Sheep  
IgG Fraction of Antiserum

Product Number **A-204**

Storage Temperature –20 °C

#### Product Description

Anti-EGF receptor antibody was developed in sheep using purified human EGF receptor as the immunogen. This antibody is provided as a protein G column purified, sterile filtered IgG fraction.

Anti-EGF receptor antibody reacts with human and rat EGF receptors in immunohistochemical assays. This antibody can be used with formalin-fixed, paraffin-embedded tissue sections.

The EGF receptor is a 170 kDa glycoprotein with two functional domains linked by a transmembrane region. The EGF receptor transduces the biological effects of epidermal growth factor. The binding of EGF to the receptor stimulates tyrosine kinase activity that is essential for propagation of signal transduction. When a ligand is bound to the EGF receptor, the receptor becomes autophosphorylated and also phosphorylates several other endogenous proteins including phospholipase C $\gamma$ . This initiates a number of intracellular responses that include increased levels of intracellular Ca $^{2+}$  and transient expression of the nuclear oncogene products *c-myc* and *c-fos*.

#### Reagents

Anti-EGF receptor antibody is provided as a solution containing 0.15 M phosphate buffered saline (PBS) at a pH of 7.5.

#### Storage/Stability

Anti-EGF receptor antibody should be stored tightly sealed at –20 °C. Should ice crystals form, store product at 2–8 °C. Storage at –80 °C is not recommended.

#### Product Profile

Recommended working dilutions for anti-EGF receptor antibody for immunohistochemical applications with transfected cells is 1:50–1:200 depending on receptor concentration.

#### References

1. Fan, Z., Mendelsohn, J., Masui, H. et al. *J. Biol. Chem.* 268, 21073–21079 (1993).
2. Fan, Z., Masui, H., Altas, I. et al. *Cancer Res.* 53, 4322–4328 (1993).
3. Fernandez, A., Spitzer, E., Perez, R. et al. *J. Cell Biochem.* 49, 157–165 (1992).

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