



EGF (EGF-10): sc-57088

BACKGROUND

Epidermal growth factor (EGF) is an acid- and heat-stable 53 amino acid protein of 6 kDa originally found in rodents and humans. EGF has been shown to be a potent mitogen for a variety of cell types both *in vivo* and *in vitro*. It binds to the 170 kDa EGF receptor on the surface of cells and mediates intrinsic phosphorylation of the receptor on tyrosine residues. EGF has been detected in nearly all body fluids, such as urine (urogastrone), saliva, milk and platelet-rich plasma. EGF, TGF α and Vaccinia Virus growth factor exhibit 30-40% amino acid homology. Several additional members of the EGF/TGF family have been described; these include Cripto, Amphiregulin and the heparin-binding EGF-like growth factor, each of which, except Cripto, binds to the EGF receptor.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EGF (human) mapping to 4q25; Egf (mouse) mapping to 3 G3.

SOURCE

EGF (EGF-10) is a mouse monoclonal antibody raised against full length EGF of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

EGF (EGF-10) is recommended for detection of recombinant EGF of human origin by immunofluorescence and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for EGF siRNA (h): sc-39416.

Molecular Weight of EGF: 6 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 2) Immunohistochemistry: use ImmunoCruz™: sc-2050 or ABC: sc-2017 mouse IgG Staining Systems.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.