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**Antibody to Human Epidermal Growth Factor
MOUSE MONOCLONAL**

Catalog Number: AB-442
Quantity: 500 micrograms
Format: Lyophilized
Host: Mouse
Isotype: IgG2b
Clone: NYR_hEGF
Immunogen: r.HumanEGF

Background:

Epidermal growth factor has a profound effect on the differentiation of specific cells *in vivo* and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin. The EGF precursor is believed to exist as a membrane-bound molecule which is proteolytically cleaved to generate the 53-amino acid peptide hormone that stimulates cells to divide. EGF stimulates the growth of various epidermal and epithelial tissues *in vivo* and *in vitro* and of some fibroblasts in cell culture.

Specificity and Preparation:

Mouse anti-human epidermal growth factor (EGF) is purified over an ion exchange column. Protein concentration is 1 mg/ml in PBS (after reconstitution).

Usage and Storage:

Reported to be effective for direct ELISA, western blot, and immunoprecipitation. Titer by direct ELISA, 1:10,000 dilution will yield 0.3 O.D using alkaline phosphatase conjugated rabbit anti-mouse Ig (Jackson Laboratories).

Reconstitute with sterile H₂O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Store lyophilized material at 4°C in dry environment. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Material is stable for two years lyophilized, one month in solution at 4°C.

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