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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:** NYRhEGF  
**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 by ion exchange. Protein concentration is 1 mg/ml in PBS (after reconstitution).

**Usage and Storage:**

Applications include direct ELISA, Western Blot, 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 H<sub>2</sub>O. Mix gently, wash the sides of the vial and wait 30-60 seconds before use. 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.