

## EGFR (3F12) monoclonal antibody

Catalog: MB0182

Host: Mouse

Reactivity: Human, Monkey

### Background:

The EGF receptor family comprises several related receptor tyrosine kinases that are frequently overexpressed in a variety of carcinomas. Members of this receptor family include EGFR (HER1), Neu (ErbB-2, HER2), ErbB-3 (HER3) and ErbB-4 (HER4), which form either homodimers or heterodimers upon ligand binding. Ligand binding promotes the internalization of EGFR via Clathrin-coated pits and its subsequent degradation in response to its intrinsic tyrosine kinase. EGFR is involved in organ morphogenesis and maintenance and repair of tissues, but upregulation of EGFR is associated with tumor progression. The oncogenic effects of EGFR include initiation of DNA synthesis, enhanced cell growth, invasion and metastasis. Abrogation of EGFR results in cell cycle arrest, apoptosis or dedifferentiation of cancer cells, suggesting that EGFR may be an effective therapeutic target.

### Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 175 kDa

### Swiss-Prot:

P00533

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1/500-1/1000 IF: 1/50-1/200 IP: 1/20

### Storage&Stability:

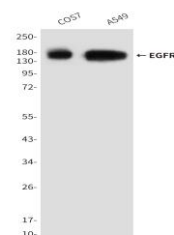
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

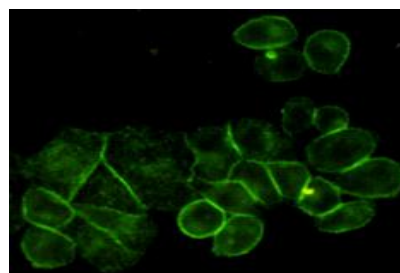
This antibody detects endogenous levels of EGFR and

does not cross-react with related proteins.

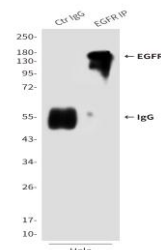
### DATA:



Western blot analysis of EGFR in A549 and COS7 lysates using EGFR antibody.



Immunocytochemistry analysis of EGFR in HeLa using EGFR antibody.



Immunoprecipitation analysis of EGFR in HeLa lysates using EGFR antibody.

### Note:

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

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## PRODUCT DATA SHEET

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