

**Mouse Anti-EGFRvIII [MD17]: MC0535**

**Intended Use:** For Research Use Only

**Description:** Epidermal growth factor receptor (EGFR) is a receptor for EGF and for various members of the EGF family such as TGF-alpha, amphiregulin, betacellulin, heparin-binding EGF-like growth factor, GP30 and vaccinia virus growth factor. EGFR is involved in the control of cell growth and differentiation. Binding of EGF to the receptor leads to dimerization, internalization of the EGF-receptor complex, induction of the tyrosine kinase activity, stimulation of cell DNA synthesis and cell proliferation. EGFRvIII has an 801-bp in-frame deletion resulting in a shorter extracellular domain (aa 6-273 are deleted) with generation of a glycine residue at the fusion point. EGFRvIII is tumor specific and is not expressed in normal human tissues. Defects in EGFR are associated with lung cancer.

**Specifications:**

Clone: MD17  
Source: Mouse  
Isotype: IgG2a  
Reactivity: Human  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA, glycerol, and ≤0.09% sodium azide (NaN<sub>3</sub>).  
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles  
Applications: IHC, ICC/IF  
Package:

Description	Catalog No.	Size
EGFRvIII Concentrated	MC0535	1 ml

**IHC Procedure\*:**

Positive Control Tissue: Adenocarcinoma  
Concentrated Dilution: 25-50  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.