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## Purified Mouse anti-EGFR (Phospho-Tyr1173) Monoclonal Antibody

**CLX296AP**

**Lot:**

**Size:** 0.1 mg

**Concentration:** 1 mg/ml

**Clone:** EM-13

**Isotype:** Mouse IgG1

**Specificity:** The antibody EM-13 reacts with human EGFR (ErbB1 / HER1) phosphorylated on tyrosine 1173.

**Immunogen:** Synthetic phospho-peptide covering sequence around tyrosine 1173 of human EGFR.

**Species Reactivity:** Human

**Application:**  
**Flow Cytometry**  
**Immunoprecipitation**  
**Western Blotting**  
Recommended dilution: 1 µg/ml  
Positive control: EGF-stimulated A431  
Negative control: Non-stimulated A431

**Purity:** > 95% (by SDS-PAGE)

**Purification:** Purified from hybridoma culture supernatant by protein-A affinity chromatography.

**Storage Buffer:** Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

**Storage / Stability:** Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

**Background:** The oncoprotein EGFR (epidermal growth factor receptor), also known as HER1 / ErbB1, is a member of ErbB family of cell surface receptor tyrosine kinases. This 170 kDa transmembrane glycoprotein is often associated with cancerogenesis, although its activation state is controlled at various levels including trafficking and degradation steps. Binding of receptor-specific ligands to the EGFR ectodomain results in formation of homodimeric or heterodimeric kinase-active complexes into which HER2 / ErbB2 is recruited as a preferred partner. Subsequent signaling cascades such as RAS/MAPK and PI3K/AKT pathways lead to cell proliferation and survival responses.

*Continued...*

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**Laboratory Reagent For Research Use Only**