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Purified Mouse Monoclonal Antibody to EGFR

CLX454AP

Lot:

Size: 0.1 mg

Clone: EGFR1

Isotype: Mouse IgG2b

Specificity: The mouse monoclonal antibody EGFR1 reacts with extracellular domain of human protein kinase EGFR (ErbB1 / HER1); epitope within amino acids 6-273.

Regulatory Status: RUO

Immunogen: Human epidermoid carcinoma line A431

Species Reactivity: Human, Equine (Horse)

Application: **Flow Cytometry**
Immunoprecipitation
Immunohistochemistry (frozen sections)
Immunocytochemistry

Purity: > 95% (by SDS-PAGE)

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

Concentration: 1 mg/ml

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

Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.

Continued...

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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.

References:

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- *Akiyama M, Smith LT, Shimizu H: Changing patterns of localization of putative stem cells in developing human hair follicles. *J Invest Dermatol*. 2000 Feb;114(2):321-7.
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- *Fortunel NO, Hatzfeld JA, Rosemary PA, Ferraris C, Monier MN, Haydont V, Longuet J, Brethon B, Lim B, Castiel I, Schmidt R, Hatzfeld A: Long-term expansion of human functional epidermal precursor cells: promotion of extensive amplification by low TGF-beta1 concentrations. *J Cell Sci*. 2003 Oct 1;116(Pt19):4043-52.

Laboratory Reagent For Research Use Only