

## Anti-EGFR Antibody Picoband® APC Conjugated

Catalog Number: PB9016-APC

### About EGFR

The epidermal growth factor receptor (EGFR; ErbB-1; HER1 in humans) is the cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands. It is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR (ErbB-1), HER2/c-neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). EGFR exists on the cell surface and is activated by binding of its specific ligands, including epidermal growth factor and transforming growth factor alpha (TGFalpha). EGFR and its ligands are cell signaling molecules involved in diverse cellular functions, including cell proliferation, differentiation, motility, and survival, and in tissue development. Mutations that lead to EGFR overexpression (known as upregulation) or overactivity have been associated with a number of cancers, including lung cancer and glioblastoma multiforme. In this latter case a more or less specific mutation of EGFR, called EGFRvIII is often observed.

### Overview

Product Name	Anti-EGFR Antibody Picoband® APC Conjugated
Reactive Species	Human, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P00533

### Technical Details

Immunogen	E.coli-derived human EGFR recombinant protein (Position: L25-K346). Human EGFR shares 89% amino acid (aa) sequence identity with mouse EGFR.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	APC Excitation Wavelength: 633-647 nm Emission Wavelength: 660 nm

Suggested Dilutions

Flow Cytometry, Optimal dilutions should be determined by end users.

## 8 Publications Citing This Product

1. PubMed ID: -, Study of the correlation between the expression of nuclear factor kappa B and proliferation regulatory proteins and chronic superficial gastritis, Hu Hui, Ma Zhijian, Ren Shouzhong, Xie Yiqiang. Vojnosanitetski pregled 2020 OnLine-First, 00, SP - 135 EP-135
2. PubMed ID: 27609096, Anti-tumor activity of erlotinib in the BxPC-3 pancreatic cancer cell line
3. PubMed ID: 21349701, Yue P, Gao Zh, Xue X, Cui Sx, Zhao Cr, Yuan Y, Yin Z, Inagaki Y, Kokudo N, Tang W, Qu Xj. Eur J Cancer. 2011 May;47(7):1115-24. Doi: 10.1016/J.Ejca.2011.01.017. Epub 2011 Feb 23. Des-?-Carboxyl Prothrombin Induces Matrix Metalloproteinase Activit...

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