

Anti-EGFR Affibody[®] Molecule, Fluorescein Conjugated

BACKGROUND

The Epidermal Growth Factor Receptor (EGFR, ErbB) is a cell surface glycoprotein of approximately 135 kD (unglycosylated). There are several alternatively spliced forms of EGFR including a secreted soluble form. The EGFR belongs to the family tyrosine kinase receptors which are characterized by an extracellular ligand-binding domain, a single transmembrane and an intracellular domain responsible for transducing the signal. The receptor dimerizes upon binding to EGFR and the transduced signal stimulates cell growth and differentiation. The EGFR is over expressed or mutated in many types of cancers and the receptor as well as the down stream signaling molecules are subjects to several cancer therapeutic interventions.

The Anti-EGFR Affibody[®] molecule is a specific affinity ligand selected against the extra cellular domain of EGFR. The molecule is conjugated at the unique C-terminal cysteine using a maleimide activated fluorescein reagent. The conjugated Anti-EGFR Affibody[®] molecule is excellent as a one step reagent for fluorescence studies of EGFR expression on cells as well as for flow cytometry. Staining of paraffin embedded tissues is not recommended.

PRODUCT INFORMATION

Product name: Anti-EGFR Affibody[®] molecule, Fluorescein Conjugated.

Catalog number:

100 µg: 10.1886.03.0001

Source: Recombinant protein produced in *E. coli*.

Specificity: Anti-EGFR Affibody[®] molecule binds to human EGFR. Cross reactivity with other species has not been tested.

MW: 13.7 kDa

Theoretical pI: 4.7

Extinction coefficient: 1 Abs₂₈₀ = 1.30 mg/ml

Purity: >98% as determined by RP-HPLC analysis.

Tested applications: Fluorescence staining of cells and flow cytometry.

Form: In buffer solution (20 mM Sodium Phosphate, 150 mM Sodium Chloride, 0.02% (w/v) Sodium Azide, pH 7.2).

Storage: Short-term storage at +4°C is recommended. For long-term storage, the protein solution should be aliquoted and then stored at -20°C.

Shipping: At ambient temperature.

Stability: There is no decrease in performance of the fluorescein conjugated Affibody[®] molecule after 10 repeated freeze and thaw cycles or after storage for 1 week in room temperature.

Product support: www.affibody.com/shop
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LIMITATIONS

Warranty: Affibody[®] products are warranted to meet stated product specifications and to confirm to label descriptions when used and stored properly. Unless otherwise stated, this warranty is limited to one year from date of sales for products used, handled and stored according to Affibody AB's instructions. Affibody AB's sole liability is limited to replacement of the product or refund of the purchase price. Affibody[®] products are supplied for research use only. They are not intended for medicinal, diagnostic or therapeutic use. Affibody[®] products may not be resold, modified for resale or used to manufacture commercial products without prior written approval from Affibody AB.

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