

Anti-HER2 Affibody[®] Molecule, Biotin Conjugated

BACKGROUND

The human epidermal growth factor receptor HER2 (Her2/neu, ErbB2, or c-erb-b2) is a growth factor receptor that is expressed on many cell types. HER2-proteins are over-expressed in a number of cancer types and assemble in homo- or heterodimers to form functional signaling units. When over-expressed, homo- or heterodimers of HER2 cause increased proliferation, decreased apoptosis, enhanced tumor cell motility and neo-angiogenesis – all being traits strongly associated with tumor formation. Thus, the her2 gene is considered an oncogene.

The Anti-HER2 Affibody[®] molecule is a highly specific affinity ligand selected against the extra cellular domain of HER2. The molecule is biotinylated at the unique C-terminal cysteine using a maleimide-biotin reagent. The biotinylated Anti-HER2 Affibody[®] molecule is excellent for fluorescence staining of cells and tissues in combination with streptavidin conjugated fluorescein probes. It can also be used for immunohistochemical staining of frozen tissue sections in combination with HRP conjugated streptavidin. Staining of paraffin embedded tissues is not recommended. In addition, the biotinylated Anti-HER2 Affibody[®] molecule is easily immobilized on different streptavidin coated solid supports.

PRODUCT INFORMATION

Product name: Anti-HER2 Affibody[®] molecule, Biotin Conjugated.

Catalog number:

100 µg: 10.0817.02.0001

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

Specificity: Anti-HER2 Affibody[®] molecule binds to extracellular domain of human epidermal growth factor receptor 2 (HER2). Cross reactivity with other species has not been tested.

MW: 14.5 kDa

Theoretical pI: 9.0

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

Tested applications: Fluorescence and immunohistochemical staining of cells and frozen tissue sections, 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 biotinylated 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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