

## Anti-TNF- $\alpha$ Affibody<sup>®</sup> IP kit

### BACKGROUND

Human TNF- $\alpha$  (Tumour Necrosis Factor-alpha) is a nonglycosylated protein of 17 kD belonging to the TNF superfamily of cytokines. TNF- $\alpha$  is produced by activated macrophages and T-lymphocyte and forms trimers spontaneously. TNF- $\alpha$  shows a wide spectrum of biological activities that are mediated by binding to TNFRI and TNFRII receptors. Besides causing cytolysis and cytostasis of many tumour cell lines in vitro, TNF- $\alpha$  has an important role in host defences against pathogens. However, excess TNF- $\alpha$  seen in sepsis and diseases of autoimmune character has severe pathological consequences and the neutralisation of TNF- $\alpha$  has been a successful treatment procedure for rheumatoid arthritis.

The Anti-TNF- $\alpha$  Affibody<sup>®</sup> molecule was selected against human TNF- $\alpha$ . The molecule is immobilized on agarose at the unique C-terminal cysteine. The agarose immobilized Anti-TNF- $\alpha$  Affibody<sup>®</sup> molecule is excellent for immunoprecipitation studies of TNF- $\alpha$  present in cell extracts or other solutions that contain TNF- $\alpha$  proteins. The Anti-TNF- $\alpha$  Affibody<sup>®</sup> molecule IP kit contains agarose immobilized Anti-TNF- $\alpha$  Affibody<sup>®</sup> molecule and cysteine blocked agarose for pre-clearing of the cell extract.

### PRODUCT INFORMATION

**Product name:** Anti-TNF- $\alpha$  Affibody<sup>®</sup> IP kit.

**Content:** Agarose immobilized Anti-TNF- $\alpha$  Affibody<sup>®</sup> molecule and cysteine blocked agarose.

**Catalog number:**

200  $\mu$ l: 10.0841.04.9002

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

**Specificity:** Anti-TNF- $\alpha$  Affibody<sup>®</sup> molecule binds to human cytokine tumor necrosis factor  $\alpha$ , TNF- $\alpha$ . Cross reactivity with other species has not been tested.

**MW:** 13.7 kDa

**Purity:** >98% as determined by SDS-PAGE and RP-HPLC analysis.

**Tested applications:** Immunoprecipitation.

**Form:** As 50% slurry in buffer solution (20 mM Sodium Phosphate, 150 mM Sodium Chloride, 0.02%(w/v) Sodium Azide, pH 7.5).

**Storage:** At +4°C. Avoid freezing.

**Shipping:** At ambient temperature.

**Stability:** There is no decrease in performance of the agarose immobilized Affibody<sup>®</sup> molecule after storage for 2 weeks at +37°C.

**Product support:** [www.affibody.com/shop](http://www.affibody.com/shop)  
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### LIMITATIONS

Warranty: Affibody<sup>®</sup> 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<sup>®</sup> products are supplied for research use only. They are not intended for medicinal, diagnostic or therapeutic use. Affibody<sup>®</sup> 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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