

**MONOCLONAL ANTIBODY TO  
HUMAN TUMOR NECROSIS FACTOR-ALPHA (TNF-alpha)  
Clone 52B83**



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<b>Catalog nr</b>	HM2010 (lot number and expiry date are indicated on the label)
<b>Description</b>	The antibody reacts with human native and recombinant TNF-alpha as assessed by ELISA and lacks cross reactivity with TNF-beta or lymphotoxin. It reacts with free soluble (17 kDa) and membrane (26 kDa) human TNF-alpha. It does not react with receptor bound TNF-alpha. The antibody cross reacts with mouse, guinea pig and rhesus monkey TNF-alpha.
<b>Species</b>	Mouse IgG <sub>1</sub>
<b>Formulation</b>	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
<b>Application</b>	The antibody is useful for staining of TNF-alpha in Western blots and for staining of TNF-alpha in tissue sections of man, several monkeys and possibly also other animals. It stains both frozen sections and classic paraffin embedded tissues. Unspecific background staining is seen in connective tissue. Furthermore it can be used for immunoassays and flow cytometry.
<b>Use</b>	For immunohistology, flow cytometry and Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.
<b>Storage and stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
<b>Precautions</b>	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hbt is not responsible for any patent infringements that might result with the use of or derivation of this product.
<b>References</b>	<ol style="list-style-type: none"><li>1. Gerspach, J et al; Detection of membrane-bound Tumor Necrosis Factor (TNF): an analysis of TNF-specific reagents. <i>Microsc Res Tech</i> 2000, <i>50</i>: 243</li><li>2. Bradding, P et al; Interleukin-4, -5, and -6 and Tumor Necrosis Factor-alpha in normal and asthmatic airways: Evidence for the human mast cell as a source of these cytokines. <i>Am J Respir Cell Mol Biol</i> 1994, <i>10</i>: 471</li><li>3. Bradding, P et al; TNFalpha is localized to nasal mucosal mast cells and is released in acute allergic rhinitis. <i>Clin Exp Allergy</i> 1994, <i>25</i>: 406</li><li>4. Laan van der, N et al; Tumor necrosis factor alpha (TNFalpha) in human skin: a comparison of different antibodies for immunohistochemistry. <i>Arch Dermatol Res</i> 2001, <i>293</i>: 226</li></ol>
<b>Also available</b>	HC2040                      Recombinant Human TNF-alpha (E.coli-derived); 5 x 10 <sup>4</sup> units HM2009                      Monoclonal antibody against Human TNF-alpha, clone 4H31; membrane and receptor bound TNF HM2024                      Monoclonal antibody against Human TNF-alpha, clone T1; membrane TNF HM2026                      Monoclonal antibody against Human TNF-alpha, clone T3; membrane and receptor bound TNF HP9001                      Polyclonal antibody against Human TNF-alpha; membrane and receptor bound TNF