

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	TNF-Alpha, Human, clone 4H31	<b>Expiry date</b>	-
<b>Catalog number</b>	HM2009-500UG	<b>Amount</b>	500 µg
<b>Lot number</b>	-	<b>Concentration</b>	>0.5 mg/ml
<b>Volume</b>	-	<b>Conjugate</b>	None
<b>Formulation</b>	0.2 µm filtered in PBS	<b>Purification</b>	Protein G
<b>Host Species</b>	Mouse IgG1		
<b>Endotoxin</b>	<24 EU/mg		
<b>Storage</b>	4°C		

**Application notes**

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes	•			•	•	•	•	•
No								
N.D.		•	•					

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

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 1:50.

- FS: The antibody is useful for inhibition of the biological activity of TNF-alpha. It has been tested in cytotoxicity assays as well as in assays with activation of endothelial cells and found to be a powerful antibody.

**General Information**

<b>Description</b>	The antibody reacts with human native and recombinant TNF-alpha as assessed by ELISA. The antibody inhibits the biological activity of human native and recombinant TNF-alpha as determined with L929 cells in a cytotoxicity assay. The antibody cross reacts with rhesus and cynomolgus natural TNF-alpha and lacks cross reactivity with human lymphotoxin.
<b>Aliases</b>	Tumor necrosis factor alpha
<b>Cross reactivity</b>	Rhesus monkey: Yes; Cynomolgus monkey: Yes; Human lymphotoxin: No.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Limb, GA et al; Distribution of TNF-alpha and its reactive vascular adhesion molecules in fibrovascular membranes of proliferative diabetic retinopathy. Br J Ophthalmol 1996, 80: 168</li> <li>2. Gerspach, J et al; Detection of membrane-bound Tumor Necrosis Factor (TNF): an analysis of TNF-specific reagents. Microsc Res Tech 2000, 50: 243</li> <li>3. Laan van der, N et al; Tumor necrosis factor alpha (TNFalpha) in human skin: a comparison of different antibodies for immunohistochemistry. Arch Dermatol Res 2001, 293: 226.</li> </ol>
<b>Storage&amp;stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least 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. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC  
Brenda Teunissen

Date  
05/11/2019

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).