

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	IL-6, Mouse, clone MP5-20F3	<b>Expiry date</b>	-
<b>Catalog number</b>	HM1004-20UG		
<b>Lot number</b>	-	<b>Amount</b>	20 µg
<b>Volume</b>	200 µl	<b>Concentration</b>	100 µg/ml
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA	<b>Conjugate</b>	None
<b>Host Species</b>	Rat IgG1	<b>Purification</b>	Protein G
<b>Endotoxin</b>	<24 EU/mg		
<b>Storage</b>	4°C		

**Application notes**

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #	2,3,4		9	3,5	1,7	2,3,6,8	1	
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 can be used for in vitro and in vivo inhibition of activity of IL-6. For neutralization of biological activity dilutions have to be made according to the amount of IL-6 to be inactivated.
- IA: The antibody can be used as a capture antibody.

**General Information**

<b>Description</b>	The antibody neutralizes mouse interleukin 6 (IL-6). It does not cross-react with LPS (the component of the bacterial cell wall which is considered responsible for the toxicity of gram-negative bacteria) and TNF-alpha nor does it bind to either human or rat IL-6. The antibody inhibits IL-6 induced proliferation of the B9 assay. IL-6 is a pluripotent 20-22 kDa cytokine which plays a role in the pathophysiology of severe infection and regulates the immune response, acute phase reaction and haematopoiesis. IL-6 plays a critical role in B-cell differentiation to plasma cells and is a potent growth factor for plasmacytoma and myeloma. Continuous IL-6 gene expression makes an essential contribution to a multistep oncogenesis of plasma cell neoplasia. IL-6 is a very useful culture supplement for the generation of a high number of antibody-producing hybridomas.
<b>Immunogen</b>	semi-purified COS-7 mouse IL-6
<b>Aliases</b>	Interleukin 6
<b>References</b>	<ol style="list-style-type: none"> <li>1. Starnes, HF Jr et al; Anti-IL-6 monoclonal antibodies protect against lethal Escherichia coli infection and lethal tumor necrosis factor-alpha challenge in mice. J Immunol 1990, <i>145</i>: 4185</li> <li>2. Kopf, Manfred et al Interleukin 6 Influences Germinal Center Development and Antibody Production via a Contribution of C3 Complement Component. J. Exp. Med. 1998, <i>188</i>: 1895</li> <li>3. Peng, S et al. T-bet regulates IgG class switching and pathogenic autoantibody production. PNAS 2002, <i>99</i>:5545</li> <li>4. Marriott, I et al. Osteoblasts Express the Inflammatory Cytokine Interleukin-6 in a Murine Model of Staphylococcus aureus Osteomyelitis and Infected Human Bone Tissue 2004, <i>164</i>: 1399</li> <li>5. Reissinger, A et al Downregulation of Mitogen-Activated Protein Kinases by the Bordetella bronchiseptica Type III Secretion System Leads to Attenuated nonclassical Macrophage Activation. Infect. Immun. 2005, <i>73</i>:308</li> <li>6. Savarese, E et al. U1 small nuclear ribonucleoprotein immune complexes induce type I interferon in plasmacytoid dendritic cells through TLR7. Blood 2006, <i>107</i>: 3229</li> <li>7. Hoge, J et al. IL-6 Controls the Innate Immune Response against Listeria monocytogenes via Classical IL-6 Signaling. Journal of Immunology, 2013, <i>190</i>: 703</li> <li>8. Maldonado M, Kapphahn RJ, Terluk MR, Heuss ND, Yuan C, et al. Immunoproteasome Deficiency Modifies the Alternative Pathway of NFκB Signaling. PLoS ONE 2013, <i>8</i>: 56187</li> <li>9. Orr MT, Beebe EA, Hudson TE, Moon JJ, Fox CB, et al. (2014) A Dual TLR Agonist Adjuvant Enhances the Immunogenicity and Protective Efficacy of the Tuberculosis Vaccine Antigen ID93. PLoS ONE 9(1): e83884</li> </ol>

**Storage&stability** Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

**Precautions** 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.

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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  
26/10/2020

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