

# **CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

**Product name** IL-6, Mouse, clone MP5-20F3

Catalog number HM1004-100UG

Lot number - Expiry date -

Volume 1 ml Amount 100 μg

Formulation 0.2 µm filtered in PBS+0.1%BSA Concentration 100 µg/ml

Host Species Rat IgG1 Conjugate None

Endotoxin <24 EU/mg Purification Protein G

Storage 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**

## Description

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.

# Immunogen

semi-purified COS-7 mouse IL-6

# Aliases

Interleukin 6

#### References

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- 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, 164: 1399
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- Hoge, J et al. IL-6 Controls the Innate Immune Response against Listeria monocytogenes via Classical IL-6 Signaling. Journal of Immunology, 2013, 190: 703
- Maldonado M, Kapphahn RJ, Terluk MR, Heuss ND, Yuan C, et al. Immunoproteasome Deficiency Modifies the Alternative Pathway of NFkB Signaling. PLoS ONE 2013, 8: 56187
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## 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.

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 11/11/2019

Do you have any questions or comments regarding this product? Please contact us via <a href="mailto:support@hycultbiotech.com">support@hycultbiotech.com</a>.