

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	IL-6, Mouse, clone MP5-32C11	Expiry date	-
Catalog number	HM1005-100UG	Amount	100 µg
Lot number	-	Concentration	100 µg/ml
Volume	1 ml	Conjugate	None
Formulation	0.2 µm filtered in PBS+0.1%BSA	Purification	Protein G
Host Species	Rat IgG2a		
Endotoxin	<24 EU/mg		
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS*	IA	IP	W
Reference #					1	1,2,3	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

* If you are interested to use this antibody for functional studies, please contact us for bulk and low endotoxin opportunities.

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.

- FS: The antibody neutralizes the biological activity of mouse 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 detection 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 block human or rat IL-6 in proliferation assays using the KD83 cell line. MP5-32C11 inhibits mouse IL-6-induced proliferation of the NFS60 myelomonocytic cell line and KD83 plasmacytoma. 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.

Aliases Interleukin 6

- References**
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, *145*: 4185
 2. Savarese, E et al. U1 small nuclear ribonucleoprotein immune complexes induce type I interferon in plasmacytoid dendritic cells through TLR7. Blood 2006, *107*: 3229
 3. Rettew, J et al. Estrogens Augment Cell Surface TLR4 Expression on Murine Macrophages and Regulate Sepsis Susceptibility in Vivo. Endocrinology 2009, *150*: 3877

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
04/06/2021

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.