

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

Product name	IL-10, Human, clone 3C12C12		
Catalog number	HM2387		
Lot number	-	Expiry date	-
Volume	100 μΙ	Amount	100 µg
Formulation	0.2 $\mu m$ filtered in PBS+0.03%NaN3	Concentration	1 mg/ml
Host Species	Mouse IgG2a	Conjugate	None
Endotoxin	N.A.	Purification	Affinity purified
Storage	4°C		

## **Application notes**

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes						٠		•
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.

General Information				
Description	The monoclonal antibody 3C12C12 is an antibody directed against human cytokine interleukin 10 (IL10). This cytokine is produced primarily by monocytes and to a lesser extent by lymphocytes. It has strong anti-inflammatory properties and is therefore key in protecting the host from tissue damage during acute phases of immune responses. IL10 down regulates the expression of Th1 cytokines, MHC class II antigens, and costimulatory molecules on macrophages. I also enhances B cell survival, proliferation, and antibody production. IL-10 binds IL-10R, a dimeric receptor composer of a high affinity IL-10R1 chain predominantly expressed on leukocytes and unique to IL-10 recognition, and a ubiquitously expressed IL-10R2 chain involved in the recognition of other cytokines from the IL-10 family (IL-22, IL-26 IL-28A, IL-28B, and IL-29). The interaction of IL-10 with IL-10R triggers the Jak-STAT signaling pathway, leading to STAT1, STAT3, and, in some instances, STAT5 activation. STAT3 is critical for IL-10 effects on immune cells. Knockou studies in mice suggested that IL10 is an essential immunoregulator in the intestinal tract. Mutations in the IL10 gene are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.			
Immunogen	Purified recombinant fragme	ent of human IL-10 expressed in E. Coli.		
Gene	Gene name: IL10	Entrez Gene ID 3586	Uniprot P22301	
Storage&stability	Product should be stored at	4°C. Under recommended storage conditi	ions, 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 paten 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.

Date 24/06/2019

Approved by Manager of QC	
Robbert Zwinkels	

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