

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	IL-33, Human, pAb	<b>Expiry date</b>	-
<b>Catalog number</b>	HP9074	<b>Amount</b>	100 µg
<b>Lot number</b>	-	<b>Concentration</b>	x mg/ml
<b>Volume</b>	xx µl	<b>Conjugate</b>	None
<b>Formulation</b>	0.2 µm filtered in PBS+0.02%NaN3+0.5%BSA+50%glycerol	<b>Purification</b>	Affinity purified
<b>Host Species</b>	Rabbit IgG		
<b>Endotoxin</b>	N.A.		
<b>Storage</b>	-20°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.

**General Information**

<b>Description</b>	IL33 has been identified as alarmin with a dual function; an IL1 family cytokine acting extracellularly and intracellularly as nuclear factor regulating gene expression. IL33 is released to alert the immune system as a first line of defense. It is expressed and released after cell injury to initiate an immune response and to start repair processes by epithelial cells after damage as a result of an inflammatory process. IL33 activates many immune cells including ILC2, mast cells, eosinophils, basophils, DCs and Th2 cells. This explains the direct relation to allergic inflammation. Besides, IL33 is implicated infectious diseases like pathogenic infection, cardiovascular disease, IBD and diabetes. IL33 signals via ST2 (suppression of tumorigenesis 2), a member of the Toll-like/IL1 receptor (TIR domain containing) superfamily. There are 2 forms of ST2 receptor, membrane bound and a soluble form that acts as a decoy receptor. Via IL33/ST2 activation ILC2 cells produce Th2 cytokines such as IL5&13. Intracellularly, IL33 functions as transcriptional repressor of NF-κB mediated gene expression. This makes it an inhibitor of pro-inflammatory signaling.		
<b>Cross reactivity</b>	Mouse: yes; Rat: yes		
<b>Immunogen</b>	Synthetic peptide, human IL-33		
<b>Gene</b>	Gene name: IL33	Entrez Gene ID <a href="#">90865</a>	Uniprot <a href="#">Q95760</a>
<b>Storage&amp;stability</b>	Product should be stored at -20°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  
Robbert Zwinkels

Date  
24/06/2019

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

