

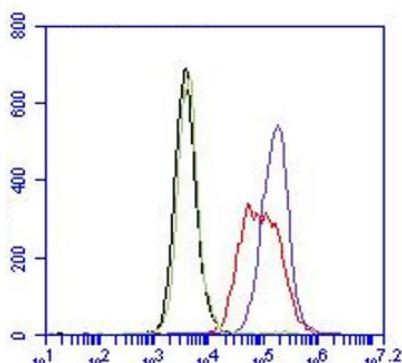
## CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

<b>Product name</b>	LAMP-2, Human, clone C5		
<b>Catalog number</b>	HM2371-20UG		
<b>Lot number</b>	-	<b>Expiry date</b>	-
<b>Volume</b>	200 µl	<b>Amount</b>	20 µg
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN <sub>3</sub>	<b>Concentration</b>	100 µg/ml
<b>Host Species</b>	Mouse IgG2b	<b>Conjugate</b>	None
<b>Endotoxin</b>	N.A.	<b>Purification</b>	Protein G
<b>Storage</b>	4°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



FC: Flow cytometry experiment with HM2371 and Huvec cells. The black line represent cells only, the green line the isotype control and the red and blue line respectively 1 and 5 µg of HM2371/250000 cells.

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.

- IA: Antibody clone 5 can be used as detection antibody.
- FC: Extracellular staining with no fixation or permeabilization.

### General Information

**Description** Monoclonal antibody HM2371, clone C5 recognizes human lysosome-associated membrane protein-2 (LAMP-2; CD107b). LAMP-2 is a heavily glycosylated membrane protein expressed in lysosomes of 383 amino acids. It is a member of a family of membrane glycoproteins like MAP-1, LIMP2 and DC-LAMP. LAMP-2 is expressed in a broad panel of tissues like placenta, lung, liver and kidney. Glycosylation is dependent on cell type and activation status. LAMP-2 exists in three splice variants LAMP-2A, LAMP-2B and LAMP-2C. They differ in their sequence in the transmembrane and cytoplasmic domain that effects their function. LAMP-2 is important for control of lysosomal activity and traffic across the lysosomal membranes. Its ability to mediate fusion between auto phagosomes and lysosomes makes it important for the process of autophagy. The protein is also involved in cholesterol transport and cytoplasmic antigen MHCII presentation. Normally LAMP-2 is expressed at low levels on the cell surface. The degree of surface expression is dependent on the cell type and state of activation. Genetic deficiency of LAMP-2 causes Danon disease inducing cardiomyopathy and myopathy. Recent studies show also involvement in ANCA-vasculitis.

**Immunogen** Lamp-2 protein

<b>Aliases</b>	Lysosome-associated membrane glycoprotein 2, Lysosome-associated membrane protein 2, CD107 antigen-like family member B, LGP-96		
<b>Gene</b>	Gene name: LAMP2	Entrez Gene ID: <a href="#">3920</a>	Uniprot: <a href="#">P13473</a>
<b>Storage&amp;stability</b>	Product should be stored at 4°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  
Brenda Teunissen

Date  
28/12/2020

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