

Datasheet for 200-301-X13**LAMP1 Antibody****Overview**

Description:	Anti-LAMP1 (MOUSE) Monoclonal Antibody - 200-301-X13
Item No.:	200-301-X13
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Lysosomal Associated Membrane Protein1 (LAMP1) is a protein that is localized primarily in lysosomes but may also be present on late endosomes and the plasma membrane. LAMP1 antibodies are therefore widely used as lysosome markers. It has recently been suggested that lysosomes are activated in microglia in the progression of multiple system atrophy (MSA) and thus play a key role in its pathology. LAMP1 Antibody is ideal for researchers interested in neuroscience research.
Synonyms:	Lysosome-associated membrane glycoprotein 1, LAMP-1, Lysosome-associated membrane protein 1, CD107 antigen-like family member A, CD_antigen=CD107a
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	5H6
Format:	IgG1

Target Details

Gene Name:	LAMP1
Reactivity:	Human
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-LAMP1 Antibody was produced in mice by repeated immunizations with a recombinant full length human LAMP1 expressed in and purified from E. coli.

Purity/Specificity:	Anti-LAMP1 Antibody was purified from tissue culture supernatant by protein G chromatography.
Relevant Links:	• UniProtKB - P11279 • GeneID - 3916 • NCBI - NP_005552.3

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-LAMP1 Antibody is tested for Western Blot, immunohistochemistry, and Immunocytochemistry, and it is specific for the ~100 kDa LAMP1 protein. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000
IHC:	1:2000
WB:	1:5000

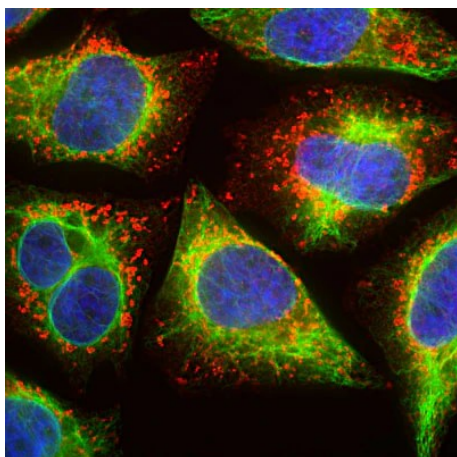
Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

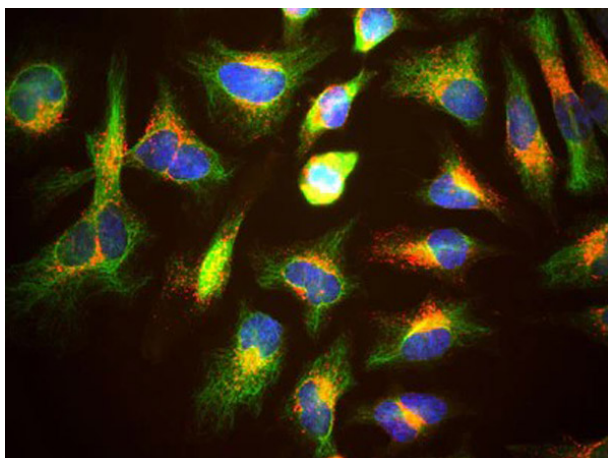
Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening in undiluted aliquots. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



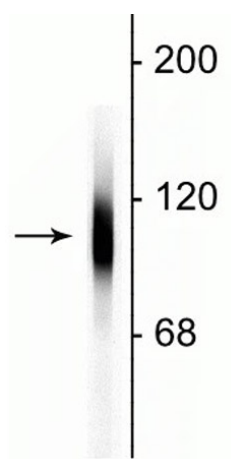
Immunofluorescence Microscopy

Immunolabeling of HeLa cells showing vesicular staining of LAMP1 protein (p/n 200-301-X13, red, 1:2000) accumulated in swollen lysosomes, while Anti-Vimentin (green, 1:500) specifically labels the intermediate filament network in these cells. The blue stain is DAPI to reveal nuclear DNA.



Immunofluorescence Microscopy

Immunostaining of HeLa cells showing specific, strong cytoplasmic labeling of LAMP1 (p/n 200-301-X13, red, 1:2000) corresponding to lysosomes and late endosomes. Additional staining with Anti-Vimentin (green, 1:500) specifically labeling the intermediate filament network. The blue stain is DAPI to reveal nuclear DNA.



Western Blot

Western blot of Anti-LAMP1 antibody. HeLa cell lysate showing specific immunolabeling of the ~100 kDa LAMP1 protein.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.