

Datasheet for ABIN7320804  
**LAMP1 Protein (His tag)**



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1 Image

Overview

Quantity:	50 µg
Target:	LAMP1
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LAMP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse LAMP1/CD107a Protein (His Tag)
Sequence:	Leu25-Asn370
Characteristics:	Recombinant Mouse LAMP1 is produced by our Mammalian expression system and the target gene encoding Leu25-Asn370 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	LAMP1
Alternative Name:	LAMP1/CD107a ( <a href="#">LAMP1 Products</a> )
Background:	Background: Lysosomal associated membrane protein 1 (LAMP1) is an approximately 120 kDa transmembrane glycoprotein that is a major protein component of lysosomal membranes. Mature mouse LAMP1 consists of a 346 amino acid (aa) intraluminal domain (ECD), a 24 aa

## Target Details

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transmembrane segment, and a 12 aa cytoplasmic tail. Its luminal domain is organized into two heavily N-glycosylated regions separated by a Ser/Pro-rich linker that carries a minor amount of O-linked glycosylation. Within the luminal domain, mouse LAMP1 shares approximately 64 % and 82 % aa sequence identity with human and rat LAMP1, respectively. The sorting of LAMP1 to lysosomes relies on a tyrosine motif in the cytoplasmic tail. In cytotoxic T cells and mast cells, LAMP1 is expressed in the membranes of intracellular granules that contain effector molecules such as perforin, granzymes, eicosanoids, and histamine. A glycoform of LAMP1 known as M150 is expressed on the surface of activated macrophages where it promotes T cell co-stimulation and a Th1 biased immune response. Exposure of epithelial cells to pathogenic Neisseria bacteria induces the redistribution of LAMP1 to the cell surface where it can be cleaved by the Neisseria IgA1 protease.

Synonym: Lysosome-associated membrane glycoprotein 1, LAMP-1, Lysosome-associated membrane protein 1, 120 kDa lysosomal membrane glycoprotein, CD107 antigen-like family member A, LGP-120, Lysosomal membrane glycoprotein A, LGP-A, P2B, CD107a

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Molecular Weight: 38.6 kDa

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UniProt: [P11438](#)

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Pathways: [Autophagy](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Please refer to the printed manual for detailed information.

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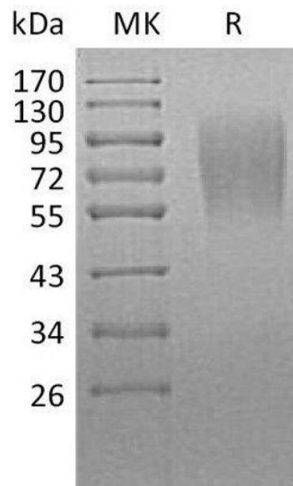
Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

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Storage: 4 °C, -20 °C, -80 °C

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Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.