

32-8963: Recombinant Mouse Lysosome-associated Membrane Glycoprotein 1/LAMP-1/CD107a (C-6His)(Discontinued)

Gene : Lamp1
Gene ID : 16783
Uniprot ID : P11438

Description

Source: Human Cells.

MW :38.6kD.

Recombinant Mouse Lysosome-associated Membrane Glycoprotein 1 is produced by our Mammalian expression system and the target gene encoding Leu25-Asn370 is expressed with a 6His tag at the C-terminus. 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 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.

Product Info

Amount : 10 µg / 50 µg

Content : Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

Amino Acid : LFEVKNNGTTCIMASFSASFLTTYETANGSQIVNISLPASAEVLKNGSSCGKENVSDPSLTIIFGRGYLLTLNFTK
NTTRYSVQHMYFTYNLSDTEHFPAISKEIYTMDSSTTDIKADINKAYRCVSDIRVYMKNVTVLRDATIQAYLSSG
NFSKEETHCTQDGPSPPTGPPSPPLVPTNPTVSKYNVTGNGTCLLASMALQLNITYLKKDNKTVTRAFNISP
NDTSSGSCGINLVTLKVENKNRALELQFGMNASSLFFLQGVRLNMTLPDALVPTFSISNHSLKALQATVGNYSY
KCNTTEHIFVSKMLSLNVFSVQVQAFKVDSDRFGSVEECVQDGNHHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.