

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 : LFEVKNNGTTCIMASFSAFLTTYETANGSQIVNISLPASAEVLKNGSSCGKENVSDPSLTITFGRGYLLTLNFTK
NTTRYSVQHMYFTYNLSDTEHFPNAISKEIYTMDDTDIKADINKAYRCVSDIRVYMKNVTVLRDATIQAYLSSG
NFSKEETHCTQDGPSPPTGPPSPPLVPTNPTVSKYNVTGNNGTCLLASMALQLNITYLKKNKTVTRAFNISP
NDTSSGSCGINLVTLKVENKNRALELQFGMNASSSLFFLQGVRLNMTLPDALVPTFSISNHSKALQATVGNSY
KCNTTEHIFVSKMLSLNVFSVQVQAFKVDSDRFGSVEECVQDGNNHHHHHH

Application Note

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