LAMP1/CD107a Protein, Human (HEK293, His)

Cat. No.:	HY-P7778
Synonyms:	rHuCD107a, His; Lysosome-Associated Membrane Glycoprotein 1; LAMP-1; Lysosome-Associated Membrane Protein 1; CD107 Antigen-Like Family Member A; CD107a; LAMP1
Species:	Human
Source:	HEK293
Accession:	P11279 (A29-M382)
Gene ID:	3916
Molecular Weight:	60-120 kDa

PROPERTIES

AA Sequence	A M F M V K N G N G T A C I M A N F S A A F S V N Y D T K S G P K N M T F D L P S D A T V V L N R S S C G K E N T S D P S L V I A F G R G H T L T L N F T R N A T R Y S V Q L M S F V Y N L S D T H L F P N A S S K E I K T V E S I T D I R A D I D K K Y R C V S G T Q V H M N N V T V T L H D A T I Q A Y L S N S S F S R G E T R C E Q D R P S P T T A P P A P P S P S P S P V P K S P S V D K Y N V S G T N G T C L L A S M G L Q L N L T Y E R K D N T T V T R L L N I N P N K T S A S G S C G A H L V T L E L H S E G T T V L L F Q F G M N A S S S R F F L Q G I Q L N T I L P D A R D P A F K A A N G S L R A L Q A T V G N S Y K C N A E E H V R V T K A F S V N I F K V W V Q A F K V E G G Q F G S V E E C L L D E N S M H H H H H H
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM PB, 150 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Lysosomal associated membrane protein 1 (LAMP1 or CD107a) is a highly glycosylated lysosomal and endosomal membrane protein of 120 kDa. LAMPs and LIMPs are tightly packed and represent more than 50% of the total membrane protein of late endosomes and lysosomes. LAMP1 has been described as a marker of $CD8^+$ T-cell degranulation following

stimulation. LAMP1 can be used as a functional marker for the identification of natural killer cell activity[1][2].

REFERENCES

[1]. Alter G, et, al. CD107a as a functional marker for the identification of natural killer cell activity. J Immunol Methods. 2004 Nov;294(1-2):15-22.

[2]. Eskelinen EL, et, al. At the acidic edge: emerging functions for lysosomal membrane proteins. Trends Cell Biol. 2003 Mar;13(3):137-45.

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