

LAMP3/CD208 Protein, Human (HEK293, His)

Cat. No.:	HY-P77435
Synonyms:	Lysosome-associated membrane glycoprotein 3; LAMP-3; DCLAMP; TSC403
Species:	Human
Source:	HEK293
Accession:	Q9UQV4/NP_055213.2 (K28-T381)
Gene ID:	27074
Molecular Weight:	Approximately 70-100 kDa due to the glycosylation

PROPERTIES

AA Sequence	<p> K A F P E T R D Y S Q P T A A A T V Q D I K K P V Q Q P A K Q A P H Q T L A A R F M D G H I T F Q T A A T V K I P T T T P A T T K N T A T T S P I T Y T L V T T Q A T P N N S H T A P P V T E V T V G P S L A P Y S L P P T I T P P A H T T G T S S S T V S H T T G N T T Q P S N Q T T L P A T L S I A L H K S T T G Q K P V Q P T H A P G T T A A A H N T T R T A A P A S T V P G P T L A P Q P S S V K T G I Y Q V L N G S R L C I K A E M G I Q L I V Q D K E S V F S P R R Y F N I D P N A T Q A S G N C G T R K S N L L L N F Q G G F V N L T F T K D E E S Y Y I S E V G A Y L T V S D P E T I Y Q G I K H A V V M F Q T A V G H S F K C V S E Q S L Q L S A H L Q V K T T D V Q L Q A F D F E D D H F G N V D E C S S D Y T </p>
Biological Activity	Measured by its ability to enhance MDA-MB-231 cells migration. The ED ₅₀ for this effect is 0.401µg/mL, corresponding to a specific activity is 2.494×10 ³ U/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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

LAMP3/CD208, a lysosomal membrane glycoprotein, is involved in the unfolded protein response (UPR), contributing to protein degradation and cell survival particularly during proteasomal dysfunction. Additionally, it plays a crucial role in the fusion process between lysosomes and autophagosomes, thereby modulating autophagy. LAMP3/CD208 has been identified as a promoter of hepatocellular lipogenesis through the activation of the PI3K/Akt pathway. Furthermore, it is implicated in dendritic cell function and adaptive immunity. In the context of microbial infection, LAMP3/CD208 plays a positive role in post-entry steps of influenza A virus replication, influencing processes such as virus uncoating, cytosolic transport, or nuclear import of viral components, and contributing to the nuclear accumulation of influenza nucleoprotein/NP during the early stages of viral infection.

Caution: Product has not been fully validated for medical applications. For research use only.

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