

LAMP3/CD208 Protein, Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P77436
Synonyms:	Lysosome-associated membrane glycoprotein 3; LAMP-3; DCLAMP; TSC403
Species:	Rhesus Macaque
Source:	HEK293
Accession:	Q8MJJ2 (K28-T381)
Gene ID:	574213
Molecular Weight:	Approximately 60-95 kDa due to the glycosylation

PROPERTIES

AA Sequence	<pre> K A F P K T R D Y S Q P T A A A T G Q D I A K P V Q Q P A N Q A P H Q T L A A R L M D G H I T F Q T A A T I K T P T T T P V T T K N T P T T S P I I Y T L V T T Q A T S N N S H T A P P L T K 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 N H T T G N A T Q P S N Q T T L P A T L S I A P 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 S T L A P Q P S S I 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 L D P N A T Q A S G N C G T R N S N L L L N F Q G G F V N L T F T K D E G S Y Y I S E V G A C L T V S D P E T I Y Q G M K H A V V M F Q T V V G H S F K C V S E Q S L Q L S A H L Q L K T T N V Q L Q A F D F E D D H F G N V D E C S S D Y T </pre>
Biological Activity	Measured by its ability to enhance MDA-MB-231 cells migration. The ED ₅₀ 3 U/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, PH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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 protein, a lysosomal membrane glycoprotein, actively participates in the unfolded protein response (UPR),
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contributing to protein degradation and cell survival under conditions of proteasomal dysfunction. Additionally, it plays a crucial role in facilitating the fusion of lysosomes with autophagosomes, thereby modulating the autophagic process. Beyond its role in cellular homeostasis, LAMP3/CD208 functions in promoting hepatocellular lipogenesis by activating the PI3K/Akt pathway. Moreover, there is evidence suggesting its involvement in dendritic cell function and adaptive immunity. Structurally, LAMP3/CD208 acts as a monomer and interacts with FURIN to carry out its diverse cellular functions.

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

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