LIV-1/SLC39A6 Protein, Cynomolgus (Sf9, His)

Cat. No.:	HY-P78569
Synonyms:	SLC39A6; LIV-1; ZIP6; Zinc transporter ZIP6; ZIP-6
Species:	Cynomolgus
Source:	Sf9 insect cells
Accession:	XP_005586923 (L21-I309)
Gene ID:	101926643
Molecular Weight:	Approximately 45 kDa

PROPERTIES

AA Sequence	L H E L K S A A A F P Q T T E K I S P N W E S G I N V D L A I T T R Q Y H L Q Q L F Y R Y G E N N S L S V E G F R K L L Q N I G I D K I K R I H I H H D H D H H S D H E H H S D H E H H S D H E H H S H R N H A A S G K N K R K A L C P E H D S D S S G K D P R N S Q G K G A H R P E H A N G R R N V K D S V S T S E V T S T V Y N T V S E G T H F L E T I E T P K L F P K D V S S S T P P S V T E K S L V S R L A G R K T N E S M S E P R K G F M Y S R N T N E N P Q E C F N A S K L L T S H G M G I Q V P L N A T E F N Y L C P A I I N Q I D A R S C L I H T S E K K A E I P P K T Y S L Q I
Biological Activity	Immobilized Cynomolgus LIV-1 His at 2 μg/mL (100 μL/well) can bind Anti-LIV-1 Antibody Human IgG1 with a linear range of ≤3 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized a 0.22 μm filtered solution ofPBS, 6% Trehalose, pH 7.4.
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.
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. 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	LIV-1/SLC39A6, a zinc-influx transporter, intricately regulates zinc homeostasis and contributes to the induction of epithelial-to-mesenchymal transition (EMT). Functionally, when forming a heterodimer with SLC39A10, this complex

mediates cellular zinc uptake, serving as a pivotal trigger for EMT. The SLC39A10-SLC39A6 heterodimer not only controls NCAM1 phosphorylation but also influences its integration into focal adhesion complexes during EMT. The zinc influx facilitated by this heterodimeric complex plays a crucial role in inactivating GSK3B, leading to nuclear accumulation of unphosphorylated SNAI1, which subsequently down-regulates adherence genes like CDH1, thereby promoting loss of cell adherence. Beyond its involvement in EMT, the SLC39A10-SLC39A6 heterodimer plays a fundamental role in initiating mitosis by importing zinc into cells, triggering a pathway that culminates in the onset of mitosis. Additionally, this transporter complex contributes to T-cell receptor signaling regulation and facilitates proper zinc influx for meiotic progression during the oocyte-to-egg transition.

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