PACSIN2 Protein, Human (HEK293, His)

Cat. No.:	HY-P71184
Synonyms:	Protein Kinase C and Casein Kinase Substrate in Neurons Protein 2; PACSIN2
Species:	Human
Source:	HEK293
Accession:	Q9UNF0 (M1-Q486)
Gene ID:	11252
Molecular Weight:	Approximately 88.0 kDa

PROPERTIES

AA Sequence	M S V T Y D D S V G V E V S S D S F W E V G N Y K R T V K R I D D G H R L C S D L M N C L H E R A R I E K A Y A Q Q L T E W A R R W R Q L V E K G P Q Y G T V E K A W M A F M S E A E R V S E L H L E V K A S L M N D D F E K I K N W Q K E A F H K Q M M G G F K E T K E A E D G F R K A Q K P W A K K L K E V E A A K K A H H A A C K E E K L A I S R E A N S K A D P S L N P E Q L K K L Q D K I E K C K Q D V L K T K E K Y E K S L K E L D Q G T P Q Y M E N M E Q V F E Q C Q Q F E E K R L R F F R E V L L E V Q K H L D L S N V A G Y K A I Y H D L E Q S I R A A D A V E D L R W F R A N H G P G M A M N W P Q F E E W S A D L N R T L S R R E K K K A T D G V T L T G I N Q T G D Q S L P S K P S S T L N V P S N P A Q S A Q S Q S S Y N P F E D E D D T G S T V S E K D D T K A K N V S S Y E K T Q S Y P T D W S D D E S N N P F S S T D A N G D S N P F D D D A T S G T E V R V R A L Y D Y E G Q E H D E L S F K A G D E L T K M E D E D E Q G W C K G R L D N G Q V G L Y P A N Y V E A I Q
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, 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. 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	PACSIN2 protein plays a pivotal role in orchestrating the morphogenesis and endocytosis of caveolae, contributing to the dynamic regulation of cellular membrane structures. Functioning as a lipid-binding protein, PACSIN2 exhibits a particular affinity for phosphatidic acid-containing membranes, promoting their tubulation. Beyond its involvement in membrane shaping, PACSIN2 serves a crucial function in intracellular vesicle-mediated transport, facilitating the endocytosis of cell-surface receptors such as the EGF receptor, even in the absence of EGF stimulus. Furthermore, PACSIN2 demonstrates a multifaceted role in microbial infection, notably enhancing the efficiency of HIV-1 virion spread through cell-to-cell transfer and promoting protrusion engulfment during the cell-to-cell spread of bacterial pathogens like Listeria monocytogenes. Additionally, PACSIN2 contributes to lipid droplet formation, a process vital for HCV virion assembly. Overall, PACSIN2 emerges as a versatile regulator with significant implications in membrane dynamics, cellular transport, and infectious processes.

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