KIRREL2/NEPH3 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P77043
Synonyms:	Kin of IRRE-like protein 2; Nephrin-like protein 3; NEPH3
Species:	Human
Source:	HEK293
Accession:	Q6UWL6 (G21-R503)
Gene ID:	84063
Molecular Weight:	Approximately 85-95 kDa.

PROPERTIES

AA Sequence	G P S P H F L Q Q P E D L V V L L G E E A R L P C A L G A Y W G L V Q W T K S G L A L G G Q R D L P G W S R Y W I S G N A A N G Q H D L H I R P V E L E D E A S Y E C Q A T Q A G L R S R P A Q L H V L V P P E A P Q V L G G P S V S L V A G V P A N L T C R S R G D A R P T P E L L W F R D G V L L D G A T F H Q T L L K E G T P G S V E S T L T L T P F S H D D G A T F V C R A R S Q A L P T G R D T A I T L S L Q Y P P E V T L S A S P H T V Q E G E K V I F L C Q A T A Q P P V T G Y R W A K G G S P V L G A R G P R L E V V A D A S F L T E P V S C E V S N A V G S A N R S T A L D V L F G P I L Q A K P E P V S V D V G E D A S F S C A W R G N P L P R V T W T R R G G A Q V L G S G A T L R L P S V G P E D A G D Y V C R A E A G L S G L R G G A A E A R L T V N A P P V V T A L H S A P A F L R G P A R L Q C L V F A S P A P D A V V W S W D E G F L E A G S Q G R F L V E T F P A P E S R G G L G P G L I S V L H I S G T Q E S D F S R S F N C S A R N R L G E G G A Q A S L G R R
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	KIRREL2/NEPH3 Protein is implicated in potentially regulating basal insulin secretion, suggesting its involvement in the intricate processes of insulin release. Structurally, it forms homodimers, indicative of its ability to engage in self-association. Functionally, KIRREL2/NEPH3 interacts with key proteins such as NPHS2/podocin, NPHS1, and FYN, highlighting its involvement in molecular interactions crucial for cellular processes. The interaction with NPHS2/podocin occurs through the C-terminus, while the interaction with NPHS1 involves the Ig-like domains, suggesting diverse binding mechanisms. Furthermore, the association with FYN adds a layer of complexity to its potential roles in cellular signaling pathways. The multifaceted interactions and potential regulatory roles of KIRREL2/NEPH3 underscore its significance in cellular functions beyond insulin secretion, warranting further investigation to unravel its precise contributions to various biological processes.

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