

NUDC Protein, Human (HEK293, His)

Cat. No.:	HY-P75947
Synonyms:	Nuclear migration protein nudC; Nuclear distribution protein C homolog; NUDC
Species:	Human
Source:	HEK293
Accession:	Q9Y266 (M1-N331)
Gene ID:	10726
Molecular Weight:	Approximately 43-50 kDa

PROPERTIES

AA Sequence	<pre> M G G E Q E E E R F D G M L L A M A Q Q H E G G V Q E L V N T F F S F L R R K T D F F I G G E E G M A E K L I T Q T F S H H N Q L A Q K T R R E K R A R Q E A E R R E K A E R A A R L A K E A K S E T S G P Q I K E L T D E E A E R L Q L E I D Q K K D A E N H E A Q L K N G S L D S P G K Q D T E E D E E E D E K D K G K L K P N L G N G A D L P N Y R W T Q T L S E L D L A V P F C V N F R L K G K D M V V D I Q R R H L R V G L K G Q P A I I D G E L Y N E V K V E E S S W L I E D G K V V T V H L E K I N K M E W W S R L V S S D P E I N T K K I N P E N S K L S D L D S E T R S M V E K M M Y D Q R Q K S M G L P T S D E Q K K Q E I L K K F M D Q H P E M D F S K A K F N </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCL, 500 mM NaCl, 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.
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	NUDC protein plays a crucial role in neurogenesis and neuronal migration. It is essential for the proper formation of mitotic spindles, accurate chromosome separation during mitosis, cytokinesis, and cell proliferation. NUDC interacts with key proteins such as PAFAH1B1, PLK1, DCDC1, and forms a complex with dynein and dynactin. Additionally, its interaction with EML4, specifically through the WD repeats, further emphasizes its involvement in cellular processes crucial for
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neurodevelopment and cell division.

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

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