

Product datasheet

Recombinant Human NDE1 protein ab125486

Overview

Product name	Recombinant Human NDE1 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Accession	Q9NXR1-2
Species	Human

Sequence	<p>MGSSHHHHHH SSGLVPRGSH MEDSGKTFSS EEEEANYWKD LAMTYKQRAE NTQEELREFQ EGSREYEAEL ETQLQQIETR NRDLLSENNR LRMELETIKE KFEVQHSEGY RQISALEDDL AQTKAIKDQL QKYIRELEQA NDDLERAKRA TMSLEDFEQ RLNQAIERNA FLESELDEKE NLLESVQRLK DEARDLRQEL AVQQKQEKPR TPMPSSVEAE RTDTAVQATG SVPSTPIAHR GPSSSLNTPG SFRRGLDDST GGTPLTPAAR ISALNIVGDL LRKVGALESK LASCRLVYD QSPNRTGGPA SGRSSKNRDG GERRPSSTSV PLGDKGLDTS CRWLSKSTTR SSSSC</p>
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Molecular weight	40 kDa including tags
Amino acids	1 to 335
Tags	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab125486** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Purity	> 85 % SDS-PAGE. ab125486 is purified by proprietary chromatographic techniques. Purity is greater than 85.0% as

determined by SDS-PAGE.

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
pH: 8.00
Constituents: 0.08% DTT, 0.32% Tris HCl, 20% Glycerol, 1.17% Sodium chloride

General Info

Function Required for centrosome duplication. Essential for the development of the cerebral cortex. May regulate the production of neurons by controlling the orientation of the mitotic spindle during division of cortical neuronal progenitors of the proliferative ventricular zone of the brain. Orientation of the division plane perpendicular to the layers of the cortex gives rise to two proliferative neuronal progenitors whereas parallel orientation of the division plane yields one proliferative neuronal progenitor and a post-mitotic neuron. A premature shift towards a neuronal fate within the progenitor population may result in an overall reduction in the final number of neurons and an increase in the number of neurons in the deeper layers of the cortex (By similarity). Required for formation and function of the mitotic spindle.

Sequence similarities Belongs to the nudE family.

Post-translational modifications Phosphorylated in mitosis.

Cellular localization Cytoplasm > cytoskeleton. Cytoplasm > cytoskeleton > centrosome. Chromosome > centromere > kinetochore. Cytoplasm > cytoskeleton > spindle. Cleavage furrow. Localizes to the interphase centrosome and to the mitotic spindle. Concentrates at the plus ends of microtubules coincident with kinetochores in metaphase and anaphase in a CENPF-dependent manner. Also localizes to the cleavage furrow during cytokinesis.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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