Product Name: **NUDC Rabbit Polyclonal Antibody**
Catalog #: **APRab14962**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
Molecular Weight	38kDa

Antigen Information

Gene Name	NUDC
Alternative Names	NUDC; Nuclear migration protein nudC; Nuclear distribution protein C homolog
Gene ID	10726.0
SwissProt ID	Q9Y266
Immunogen	The antiserum was produced against synthesized peptide derived from human NudC. AA range:282-331

Background

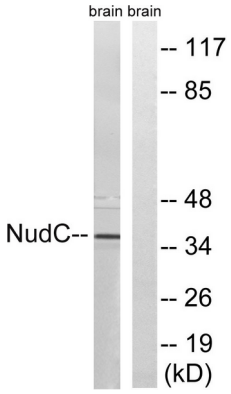
This gene encodes a nuclear distribution protein that plays an essential role in mitosis and cytokinesis. The encoded protein is

involved in spindle formation during mitosis and in microtubule organization during cytokinesis. Pseudogenes of this gene are found on chromosome 2. [provided by RefSeq, Feb 2012],function:Plays a role in neurogenesis and neuronal migration (By similarity). Necessary for correct formation of mitotic spindles and chromosome separation during mitosis. Necessary for cytokinesis and cell proliferation.,induction:Up-regulated in actively dividing hematopoietic precursor cells. Up-regulated in cultured erythroleukemia TF-1 cells by granulocyte-macrophage colony-stimulating factor. Strongly down-regulated during maturation of erythroid precursor cells.,PTM:Reversibly phosphorylated on serine residues during the M phase of the cell cycle. Phosphorylation on Ser-274 and Ser-326 is necessary for correct formation of mitotic spindles and chromosome separation during mitosis. Phosphorylated by PLK and other kinases.,similarity:Belongs to the nudC family.,similarity:Contains 1 CS domain.,subcellular location:In a filamentous pattern adjacent to the nucleus of migrating cerebellar granule cells. Colocalizes with tubulin and dynein and with the microtubule organizing center. Distributed throughout the cytoplasm of non-migrating cells. A small proportion is nuclear, in a punctate pattern.,subunit:Binds PLK1. Binds PAFAH1B1 (By similarity). Part of a complex containing PLK1, NUDC, dynein and dynactin.,tissue specificity:Ubiquitous. Highly expressed in fetal liver, kidney, lung and brain. Highly expressed in adult pancreas, kidney, skeletal muscle, liver, lung, placenta, prostate, brain and heart.,

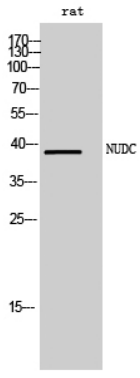
Research Area

Cell Biology; Cell Cycle; Cell Division; Spindle; Neuroscience; Neurology process; Neurogenesis

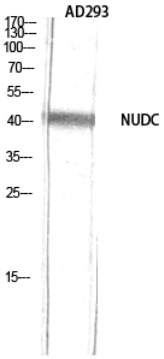
Image Data



Western blot analysis of lysates from rat brain cells, using NudC Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of rat cells using NUDC Polyclonal Antibody diluted at 1 : 2000



Western Blot analysis of AD293 using NUDC Polyclonal Antibody diluted at 1：2000