

**Product Name: NUDC Rabbit Polyclonal Antibody**  
**Catalog #: APRab14962**



## Summary

<b>Production Name</b>	NUDC Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

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

## Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000. ELISA: 1:10000..
<b>Molecular Weight</b>	38kD

## Background

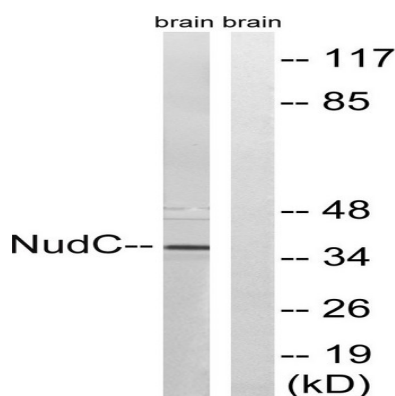
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This gene encodes a nuclear distribution protein that plays an essential role in mitosis and cytokinesis. The encoded protein is involved in spindle formation during mitosis and in microtubule organization during cytokinesis. Pseudogenes of this gene 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.,

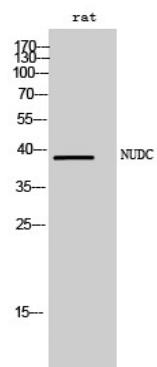
## Research Area

## Image Data

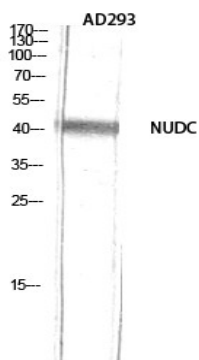


Western blot analysis of lysates from rat brain cells, using NudC Antibody. The lane on the right is blocked with the synthesized peptide.

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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

## Note

For research use only.