

Rabbit NudC Polyclonal Antibody | anti-NudC antibody

Phospho-NudC (Ser326) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329497	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (90%), Horse (100%), Sheep (90%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

NudC; Polyclonal Antibody; Phospho-NudC (Ser326) Antibody; HNUDC; MNUDC; MNUDC protein; NPD011; Nuclear distribution C homolog; Nuclear distribution gene C (A.nidulans) homolog; Nuclear distribution gene C homolog; Nuclear distribution gene C homolog (A. nidulans); Nuclear distribution protein C homolog; Nuclear migration protein nudC; nudC; NudC nuclear distribution protein; NUDC_HUMAN; OTTHUMP00000004405; SIG 92; SIG92; anti-NudC antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (90%), Horse (100%), Sheep (90%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-NudC (Ser326) Antibody detects endogenous levels of NudC only when phosphorylated at Ser326. 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.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-NudC antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NudC around the phosphorylation site of Ser326.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	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.
Subunit Structure	Interacts with PAFAH1B1 (By similarity). Interacts with PLK1. Part of a complex containing PLK1, NUDC, dynein and dynactin. Interacts with DCDC1.
Similarity	Belongs to the nudC family.
Subcellular Location	Cytoplasm>Cytoskeleton. Nucleus. Note: 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.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/100 staining Human pancreatic cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Rat testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from HeLa , using Phospho-NudC (Ser326) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NudC antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5729953
NCBI GeneID	10726
NCBI Accession #	NP_006591.1
NCBI GenBank Nucleotide #	NM_006600.3
UniProt Accession #	Q9Y266; Q5QP31; Q5QP35; Q9H0N2; Q9Y2B6
Molecular Weight	38,243 Da
NCBI Official Full Name	nuclear migration protein nudC
NCBI Official Synonym Full Names	nuclear distribution C homolog (A. nidulans)
NCBI Official Symbol	NUDC
NCBI Official Synonym Symbols	HNUDC; MNUDC; NPD011
NCBI Protein Information	nuclear migration protein nudC; nuclear distribution gene C homolog; nuclear distribution protein C homolog
UniProt Protein Name	Nuclear migration protein nudC
UniProt Gene Name	NUDC
UniProt Entry Name	NUDC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.