

Rabbit anti-Human NUDC Polyclonal Antibody | anti-NUDC antibody

NUDC Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327419	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

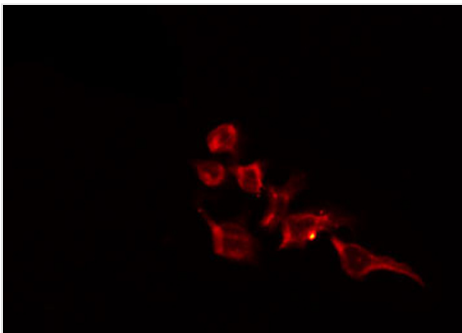
PRODUCT SYNONYMS

NUDC; Polyclonal Antibody; NUDC 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

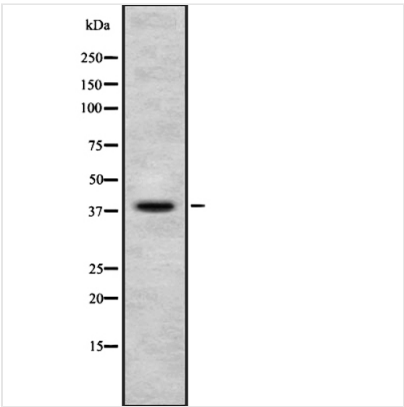
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	NUDC antibody detects endogenous levels of total NUDC
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	331
Applicable Applications for anti-NUDC antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NUDC
Subcellular Location	Cytoplasm > Cytoskeleton. Nucleus. 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.
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.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA327419 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis NUDC using MCF7 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-NUDC antibody	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. Subunit Structure: Interacts with PAFAH1B1 (By similarity). Interacts with PLK1 (PubMed:12852857). Part of a complex containing PLK1, NUDC, dynein and dynactin (PubMed:12852857). Interacts with DCDC5 (PubMed:22159412). 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. Similarity: Belongs to the nudC family.
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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	Observed: 42 kDa Predicted: 39 kDa
NCBI Official Full Name	nuclear migration protein nudC
NCBI Official Synonym Full Names	nuclear distribution C, dynein complex regulator
NCBI Official Symbol	NUDC
NCBI Official Synonym Symbols	HNUDC; MNUDC; NP0011
NCBI Protein Information	nuclear migration protein nudC
UniProt Protein Name	Nuclear migration protein nudC
UniProt Gene Name	NUDC

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.