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NUDC Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16056c

Product Information

Application	WB, E
Primary Accession	Q9Y266
Other Accession	NP_006591.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35299
Calculated MW	38243
Antigen Region	105-133

Additional Information

Gene ID	10726
Other Names	Nuclear migration protein nudC, Nuclear distribution protein C homolog, NUDC
Target/Specificity	This NUDC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 105-133 amino acids from the Central region of human NUDC.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NUDC Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NUDC
Function	Plays a role in neurogenesis and neuronal migration (By similarity). Necessary for correct formation of mitotic spindles and chromosome

	separation during mitosis (PubMed:12679384, PubMed:12852857, PubMed:25789526). Necessary for cytokinesis and cell proliferation (PubMed:12679384, PubMed:12852857).
Cellular Location	Cytoplasm, cytoskeleton. Nucleus. Cytoplasm, cytoskeleton, spindle. Midbody 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. Localizes to the mitotic spindle in a EML4-dependent manner (PubMed:25789526).
Tissue Location	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

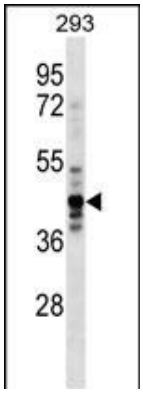
Background

NudC was first identified as a regulator of nuclear movement in the asexual reproductive cycle of the filamentous fungus Aspergillus nidulans. Human NUDC is a nuclear movement protein that associates with dynein (see DYNC1H1; MIM 600112) (Aumais et al., 2003 [PubMed 12679384]).

References

Zhu, X.J., et al. J. Biol. Chem. 285(39):29903-29910(2010)
Chen, W.M., et al. J. Biol. Chem. 285(34):26697-26709(2010)
Pang, S.F., et al. Exp. Cell Res. 315(20):3563-3573(2009)
Tang, Y.S., et al. Leukemia 22(5):1018-1025(2008)
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Images



NUDC Antibody (Center) (Cat. #AP16056c) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the NUDC antibody detected the NUDC protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.