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[Marker Primary Antibody]

Rabbit Anti-NUDCD3/APC Conjugated antibody

Catalog Number: SL13766R-APC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-NUDCD3/APC
Immunogen:	KLH conjugated synthetic peptide derived from human NUDCD3
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Pig)
Background:	background: Nuclear migration is essential for growth, development and cellular function of multicellular organisms. NUDCD3 (NudC domain containing 3) is a 361 amino acid protein that contains one CS domain and is phosphorylated upon DNA damage by either ATR or ATM. Ubiquitously expressed, NUDCD3 has been observed to colocalize with Golgi marker proteins during interphase of mitosis in HeLa cells, and is found at low levels in brain, ovary and heart. The gene encoding NUDCD3 maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to Osteogenesis imperfecta, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome. **Function:** NUDCD3 functions to maintain the stability of dynein intermediate chain. Depletion of NUDCD3 results in aggregation and degradation of dynein intermediate chain, mislocalization of the dynein complex from kinetochores, spindle microtubules, and spindle poles, and loss of gamma-tubulin from

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	spindle poles. NUDCD3 levels increase after the G1/S transition. **Similarity:** Contains 1 CS domain. **Database links:** **Entrez Gene:** 23386 Human Omim: 610296 Human **SwissProt:** Q8IVD9 Human **Unigene:** 488171 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.