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NDC1 Rabbit pAb

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Catalog # AP57375

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BTX1
Predicted	Rat, Pig, Cat, Dog, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76305
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NDC1
Epitope Specificity	551-650/674
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus; nuclear pore complex; multipass membrane protein
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	NDC1 is a 674 amino acid multi-pass membrane protein, central core structure of the nuclear pore complex (NPC) and member of the NDC1 family that is crucial for selective nuclear protein import. Existing as four alternatively spliced isoforms that are encoded by a gene located on human chromosome 1, NDC1 interacts with Nup35 and anchors Aladin to the nuclear envelope of the NPC, a region of macromolecular transport between the nucleus and cytoplasm. In the absence of NDC1, Aladin becomes mislocalized and may lead to the development of an autosomal recessive disorder termed achalasia-addisonianism-alacrima (triple A) syndrome. Triple A syndrome is characterized by achalasia, alacrima and adrenocortico-tropin-resistant adrenal insufficiency. Robust expression in neural systems associated with cognitive, motor and sensory functions is consistent with the myriad of symptoms experienced by patients with triple A syndrome.

Additional Information

Gene ID	55706
Other Names	Nucleoporin NDC1, hNDC1, Transmembrane protein 48, NDC1, TMEM48
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NDC1
Synonyms	TMEM48
Function	Component of the nuclear pore complex (NPC), which plays a key role in de novo assembly and insertion of NPC in the nuclear envelope. Required for NPC and nuclear envelope assembly, possibly by forming a link between the nuclear envelope membrane and soluble nucleoporins, thereby anchoring the NPC in the membrane.
Cellular Location	Nucleus, nuclear pore complex. Nucleus membrane; Multi-pass membrane protein. Note=Central core structure of the nuclear pore complex

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