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UNC84A antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI13105

Product Information

Application	WB, IHC
Primary Accession	O94901
Other Accession	NM_025154, NP_079430
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	87110

Additional Information

Gene ID	23353
Alias Symbol	FLJ12407, KIAA0810, MGC176649, SUN1, UNC84A
Other Names	SUN domain-containing protein 1, Protein unc-84 homolog A, Sad1/unc-84 protein-like 1, SUN1, KIAA0810, UNC84A
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-UNC84A antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	UNC84A antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SUN1 (HGNC:18587)
Synonyms	KIAA0810, UNC84A
Function	As a component of the LINC (LInker of Nucleoskeleton and Cytoskeleton) complex involved in the connection between the nuclear lamina and the cytoskeleton (PubMed:18039933, PubMed:18396275). The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning (By similarity). Required for interkinetic nuclear migration (INM) and essential for nucleokinesis and centrosome-nucleus coupling during radial neuronal migration in the cerebral cortex and during

glial migration (By similarity). Involved in telomere attachment to nuclear envelope in the prophase of meiosis implicating a SUN1/2:KASH5 LINC complex in which SUN1 and SUN2 seem to act at least partial redundantly (By similarity). Required for gametogenesis and involved in selective gene expression of coding and non-coding RNAs needed for gametogenesis (By similarity). Helps to define the distribution of nuclear pore complexes (NPCs) (By similarity). Required for efficient localization of SYNE4 in the nuclear envelope (By similarity). May be involved in nuclear remodeling during sperm head formation in spermatogenesis (By similarity). May play a role in DNA repair by suppressing non- homologous end joining repair to facilitate the repair of DNA cross- links (PubMed:24375709).

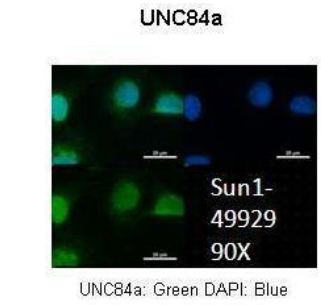
Cellular Location

Nucleus inner membrane; Single-pass type II membrane protein. Note=At oocyte MI stage localized around the spindle, at MII stage localized to the spindle poles {ECO:0000250|UniProtKB:Q9D666}

References

Nagase T.,et al.DNA Res. 5:277-286(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Hillier L.W.,et al.Nature 424:157-164(2003).
Malone C.J.,et al.Development 126:3171-3181(1999).

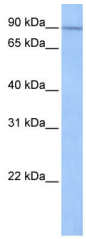
Images



UNC84a: Green DAPI: Blue

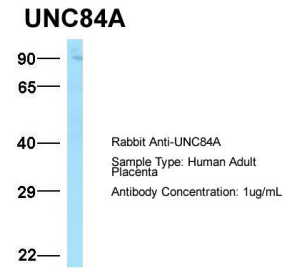
See IHC 1 Data and Customer Feedback for more Information

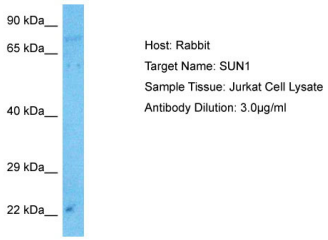
Sample Type : Mouse C2C12 cells
Primary Antibody Dilution : 1:500
Secondary Antibody : Goat anti-rabbit-Alexa Fluor 488
Secondary Antibody Dilution : 1:500 Color/Signal
Descriptions : UNC84a: Green DAPI: Blue
Gene Name : UNC84A Submitted by : Dr. David Razafsky, Washington University in Saint Louis



WB Suggested Anti-UNC84A Antibody Titration: 0.2-1 µg/ml
Positive Control: Jurkat cell lysate

Host: Rabbit
Target Name: UNC84A
Sample Tissue: Human Adult Placenta
Antibody Dilution: 1.0µg/ml





Host: Rabbit
Target Name: SUN1
Sample Tissue: Jurkat Whole Cell lysates
Antibody Dilution: 3µg/ml