

KD-Validated Anti-SUN1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1750

Product Information

Application	WB, FC, ICC
Primary Accession	O94901
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB2575
Calculated MW	87110
Gene Name	SUN1
Aliases	SUN1; Sad1 And UNC84 Domain Containing 1; KIAA0810; UNC84A; SUN Domain-Containing Protein 1; Sad1 Unc-84 Domain Protein 1; Sad1/Unc-84 Protein-Like 1; Protein Unc-84 Homolog A; FLJ12407; Unc-84 Homolog A (C. Elegans); Unc-84 Homolog A
Immunogen	A synthesized peptide derived from human SUN1

Additional Information

Gene ID	23353
Other Names	SUN domain-containing protein 1, Protein unc-84 homolog A, Sad1/unc-84 protein-like 1, SUN1 (HGNC:18587), KIAA0810, UNC84A

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}

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