

Product Name: KD-Validated Sad1 And UNC84 Domain Containing 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAAb01305

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 80.3kDa

Antigen Information

Gene Name	SUN2
Alternative Names	SUN2; Sad1 And UNC84 Domain Containing 2; UNC84B; SUN Domain-Containing Protein 2; Sad1/Unc-84 Protein-Like 2; Protein Unc-84 Homolog B; Rab5-Interacting Protein; Rab5IP; Unc-84 Homolog B (C. Elegans); Sad1 Unc-84 Domain Protein 2; Nuclear Envelope Protein; Unc-84 Homolog B; KIAA0668; RAB5IP; FRIGG
Gene ID	25777.0
SwissProt ID	Q9UH99
Immunogen	A synthesized peptide derived from human SUN2

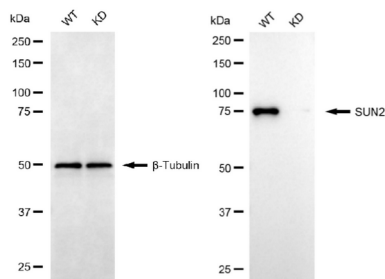
Background

SUN1 (MIM 607723) and SUN2 are inner nuclear membrane (INM) proteins that play a major role in nuclear-cytoplasmic connection by formation of a 'bridge' across the nuclear envelope, known as the LINC complex, via interaction with the conserved luminal KASH domain of nesprins (e.g., SYNE1; MIM 608441) located in the outer nuclear membrane (ONM). The LINC complex provides a direct connection between the nuclear lamina and the cytoskeleton, which contributes to nuclear positioning and cellular rigidity (summary by Haque et al., 2010 [PubMed 19933576]).[supplied by OMIM, Nov 2010]

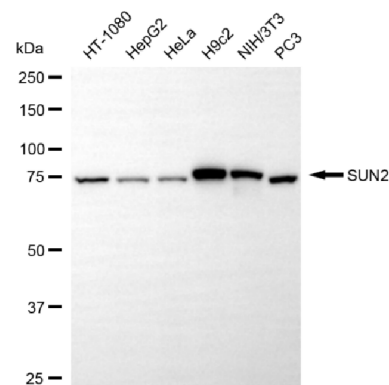
Research Area

Tags & Cell Markers, Signal Transduction

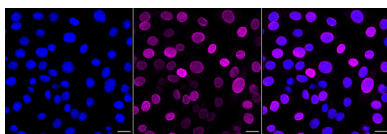
Image Data



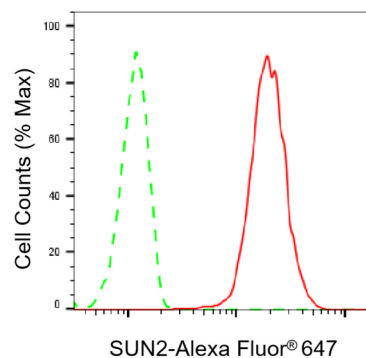
Western blotting analysis using SUN2 antibody (KVA01305). SUN2 expression in wild type (WT) and SUN2 knockdown (KD) HSHC cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with SUN2 antibody (KVA01305, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using SUN2 antibody (KVA01305). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SUN2 antibody (KVA01305, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with SUN2 antibody (KVA01305, 1:1,000). Nuclei were stained blue with DAPI; SUN2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of SUN2 expression in C2C12 cells using SUN2 antibody (KVA01305, 1:2,000). Green, isotype control; red, SUN2.