

For Research Use Only

SUN2 Recombinant antibody

Catalog Number:85103-3-RR



Basic Information

Catalog Number: 85103-3-RR	GenBank Accession Number: BC111717	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 25777	CloneNo.: 242533G3
Source: Rabbit	UNIPROT ID: Q9UH99	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:500-1:2000
Isotype: IgG	Full Name: unc-84 homolog B (C. elegans)	
Immunogen Catalog Number: AG16077	Calculated MW: 717 aa, 80 kDa	
	Observed MW: 80-85 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:
human

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Positive Controls:

WB : Jurkat cells, HeLa cells, Saos-2 cells

IHC : human colon tissue,

IF/ICC : HepG2 cells,

Background Information

SUN2, also known as UNC84B, RAB5IP, belongs to the SUN (Sad1 and UNC84) protein family, which is a group of conserved proteins in eukaryotes. SUN2 is a key component of the LINC (Linker of Nucleoskeleton and Cytoskeleton) complex, which connects the nuclear lamina to the cytoskeleton. This connection is crucial for the transmission of mechanical forces across the nuclear envelope and for nuclear movement and positioning (PMID: 18396275).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

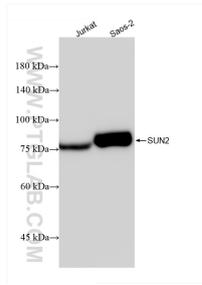
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

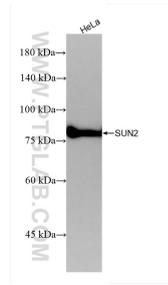
E: proteintech@ptglab.com
W: ptglab.com

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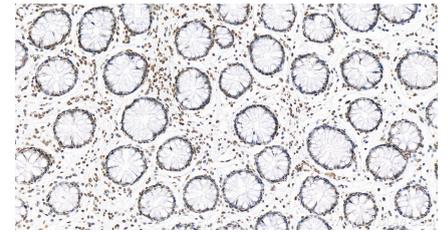
Selected Validation Data



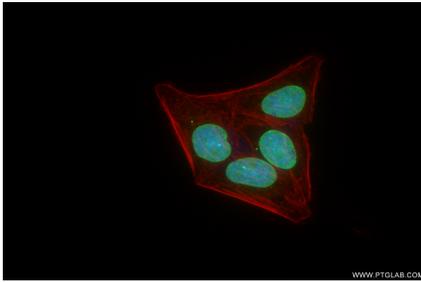
Various lysates were subjected to SDS PAGE followed by western blot with 85103-3-RR (UNC84B antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



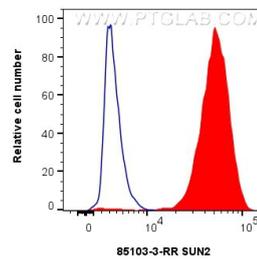
HeLa cells were subjected to SDS PAGE followed by western blot with 85103-3-RR (UNC84B antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



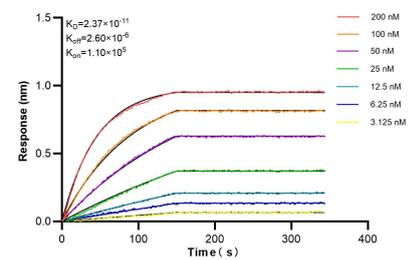
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 85103-3-RR (SUN2 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SUN2 antibody (85103-3-RR, Clone: 242533G3) at dilution of 1:1000 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g SUN2 Recombinant antibody (85103-3-RR, Clone:242533G3) and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 μ g Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Bi-layer interferometry (BLI) kinetic assays of 85103-3-RR against Human SUN2 were performed. The affinity constant is 23.7 pM.