

For Research Use Only

SON Recombinant antibody

Catalog Number: 83787-5-RR



Basic Information

Catalog Number: 83787-5-RR	GenBank Accession Number: NM_001291411	Purification Method: Protein A purification
Concentration: 1000 ug/ml	GeneID (NCBI): 6651	CloneNo.: 240845B7
Source: Rabbit	UNIPROT ID: P18583	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:300-1:1200 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: SON DNA binding protein	
Immunogen Catalog Number: AG27620	Calculated MW: 264 aa Observed MW: 250-300 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : HeLa cells, L02 cells, human testis tissue IHC : human colon tissue, IF/ICC : U2OS cells,
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	

Background Information

SON, also called C21orf50 and DBP5, is a nuclear speckle-localized protein that shares homology with pre-mRNA splicing accessory factors (PMID: 10950926). It is an RNA-binding protein that acts as an mRNA splicing cofactor by promoting efficient splicing of transcripts that possess weak splice sites, and specifically promotes splicing of many cell-cycle and DNA-repair transcripts that possess weak splice sites, such as TUBG1, KATNB1, TUBGCP2, AURKB, PCNT, AKT1, RAD23A, and FANCG (PMID: 20581448; 21504830).

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

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

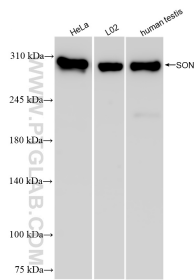
T: 4006900926

E: Proteintech-CN@ptglab.com

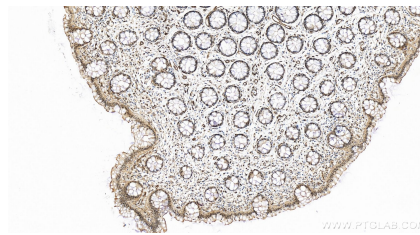
W: ptgcn.com

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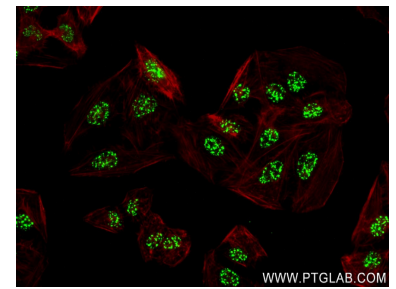
Selected Validation Data



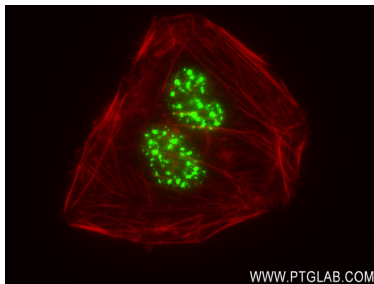
Various lysates were subjected to SDS PAGE followed by western blot with 83787-5-RR (SON antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



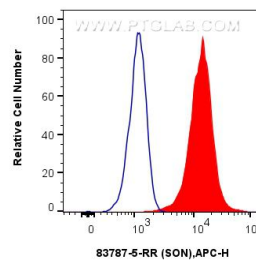
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 83787-5-RR (SON antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



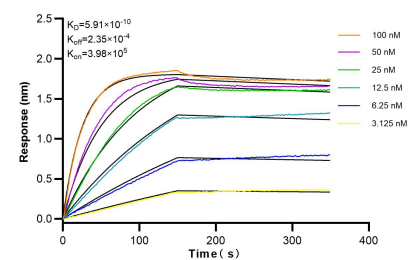
Immunofluorescent analysis of (4% PFA) fixed U2OS cells using SON antibody (83787-5-RR, Clone: 240845B7) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using SON antibody (83787-5-RR, Clone: 240845B7) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug SON Recombinant antibody (83787-5-RR, Clone:240845B7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Bilayer interferometry (BLI) kinetic assays of 83787-5-RR against Human SON were performed. The affinity constant is 0.591 nM.