

For Research Use Only

# SON Recombinant antibody, PBS Only

Catalog Number: 83787-5-PBS



## Basic Information

Catalog Number:

83787-5-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27620

GenBank Accession Number:

NM\_001291411

GeneID (NCBI):

6651

UNIPROT ID:

P18583

Full Name:

SON DNA binding protein

Calculated MW:

264 aa

Observed MW:

250-300 kDa

Purification Method:

Protein A purification

CloneNo.:

240845B7

## Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:

human

## 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 -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

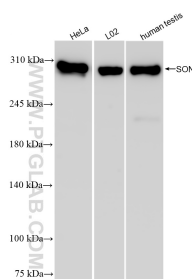
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

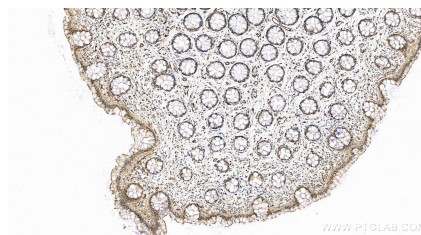
W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

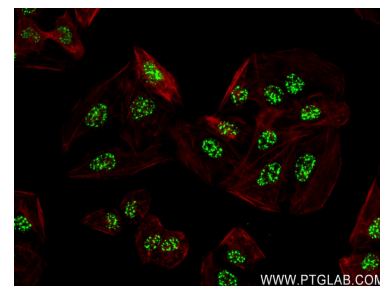
## Selected Validation Data



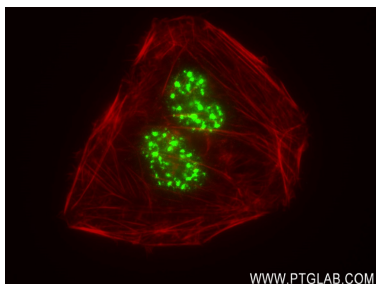
Various lysates were subjected to SDS PAGE followed by western blot with 83787-5-RR (SON antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83787-5-PBS in a different storage buffer formulation.



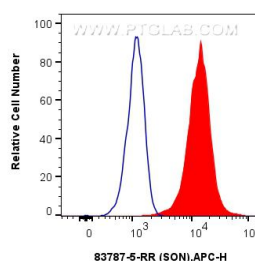
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 83787-5-RR (SON antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83787-5-PBS in a different storage buffer formulation.



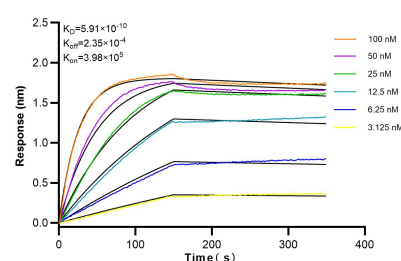
Immunofluorescent analysis of (4% PFA) fixed U2OS cells using SON antibody (83787-5-RR, Clone: 240845B7) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83787-5-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 83787-5-PBS in a different storage buffer formulation.



1x10<sup>6</sup> 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. This data was developed using the same antibody clone with 83787-5-PBS in a different storage buffer formulation.



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