

For Research Use Only

SON Recombinant antibody, PBS Only

Catalog Number: 83787-5-PBS



Basic Information

Catalog Number:

83787-5-PBS

Size:

100ug , Concentration: 1 mg/ml by Nanodrop;

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.

Storage Buffer:

PBS Only

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

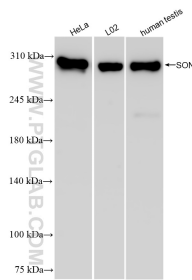
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

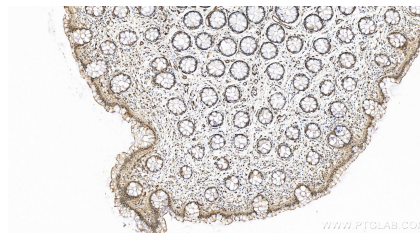
W: ptglab.com

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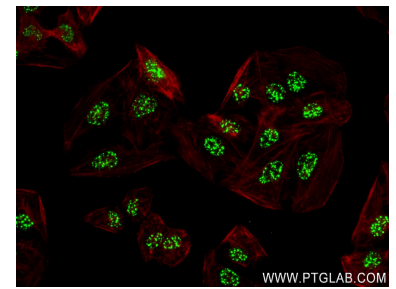
Selected Validation Data



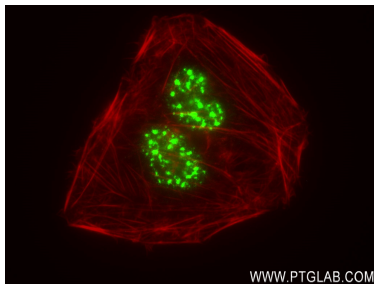
Various lysates were subjected to SDS PAGE followed by western blot with 83787-5-RR (SON antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83787-5-PBS in a different storage buffer formulation.



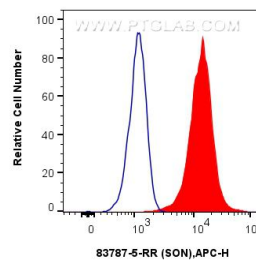
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 83787-5-RR (SON antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83787-5-PBS in a different storage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



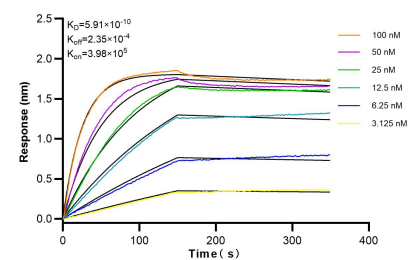
Immunofluorescent analysis of (4% PFA) fixed U2OS cells using SON antibody (83787-5-RR, Clone: 240845B7) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83787-5-PBS in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



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. 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.