

For Research Use Only

SSBP1 Polyclonal antibody

Catalog Number: 12212-1-AP

Featured Product

24 Publications



Basic Information

Catalog Number:

12212-1-AP

Size:

800 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2860

GenBank Accession Number:

BC000895

GeneID (NCBI):

6742

UNIPROT ID:

Q04837

Full Name:

single-stranded DNA binding protein

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Calculated MW:

148 aa, 17 kDa

Observed MW:

17 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IF 1:50-1:500

Applications

Tested Applications:

IF/ICC, WB, ELISA

Cited Applications:

WB, IF, IHC, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : A549 cells, A375 cells, mouse pancreas tissue, rat pancreas tissue, Caco-2 cells

IF : A375 cells,

Background Information

SSBP1 is a housekeeping gene involved in mitochondrial biogenesis. It binds preferentially and cooperatively to ss-DNA in the maintenance of genome stability. SSBP1 acted as a homotetramer to stabilize the displaced single strand of the normal and expanded displacement loop (D loop) during mtDNA replication, thus preventing formation of secondary single-stranded DNA structures, which could stop the gamma-DNA polymerase

Notable Publications

Author	Pubmed ID	Journal	Application
Timo Rey	32989247	Nat Cell Biol	WB
Margaret A Gustafson	31479473	PLoS One	WB
Aindriła Chatterjee	27768893	Cell	WB

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:

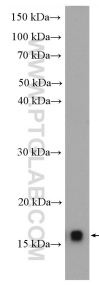
T: 4006900926

E: Proteintech-CN@ptglab.com

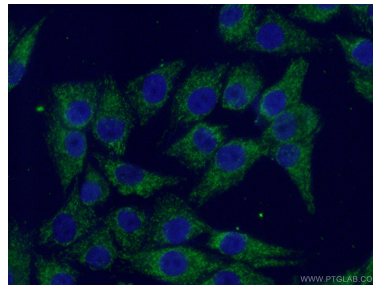
W: ptgcn.com

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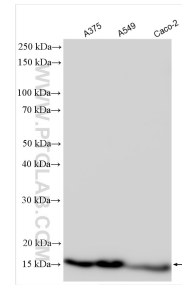
Selected Validation Data



A549 cells were subjected to SDS PAGE followed by western blot with 12212-1-AP (SSBP1 antibody) at dilution of 1:600 incubated at 4 degree celsius over night.



Immunofluorescent analysis of (4% PFA) fixed A375 cells using 12212-1-AP (SSBP1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 12212-1-AP (SSBP1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.