

For Research Use Only

# SSBP1 Polyclonal antibody

Catalog Number: 12212-1-AP

Featured Product

24 Publications



## Basic Information

**Catalog Number:**

12212-1-AP

**Size:**

150ul , Concentration: 800 µg/ml by Nanodrop;

**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 1

**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, WB, ELISA

**Cited Applications:**

ChIP, IF, IHC, WB

**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

\*\*\* 20ul sizes contain 0.1% BSA

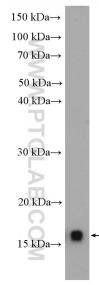
For technical support and original validation data for this product please contact:

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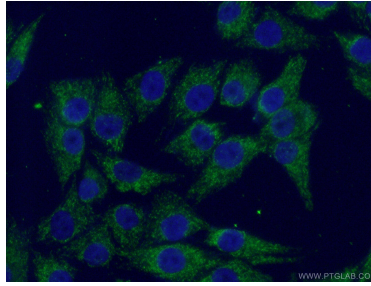
E: proteintech@ptglab.com  
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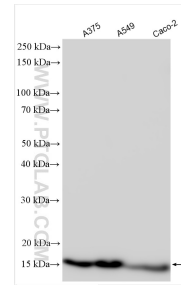
## Selected Validation Data



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.