

For Research Use Only

# SMARCAL1 Polyclonal antibody

Catalog Number: 12513-1-AP

Featured Product

2 Publications



## Basic Information

**Catalog Number:**

12513-1-AP

**Size:**

350 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG3194

**GenBank Accession Number:**

BC016482

**GeneID (NCBI):**

50485

**UNIPROT ID:**

Q9NZC9

**Full Name:**

SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a-like 1

**Calculated MW:**

954 aa, 106 kDa

**Observed MW:**

106 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

## Applications

**Tested Applications:**

WB, ELISA

**Cited Applications:**

WB, IP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human

**Positive Controls:**

WB : HEK-293 cells, Jurkat cells, mouse testis tissue

## Background Information

SMARCAL1 is identified as a factor that favors tumor immune evasion by a dual mechanism involving both the suppression of innate immune signaling and the induction of PD-L1-mediated immune checkpoint responses. Mechanistically, SMARCAL1 limits endogenous DNA damage, thereby suppressing cGAS-STING-dependent signaling during cancer cell growth. Simultaneously, it cooperates with the AP-1 family member JUN to maintain chromatin accessibility at a PD-L1 transcriptional regulatory element, thereby promoting PD-L1 expression in cancer cells (PMID: 38301646).

## Notable Publications

| Author     | Pubmed ID | Journal               | Application |
|------------|-----------|-----------------------|-------------|
| Qiu Tu     | 36109793  | J Exp Clin Cancer Res | WB          |
| Wenya Feng | 34715232  | Sci Total Environ     | WB,IP       |

## 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:

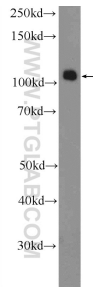
T: 4006900926

E: Proteintech-CN@ptglab.com

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

## Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 12513-1-AP (SMARCAL1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.