

For Research Use Only

# SIM2 Polyclonal antibody

Catalog Number: 21069-1-AP

1 Publications



## Basic Information

Catalog Number:

21069-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15204

GenBank Accession Number:

BC110444

GeneID (NCBI):

6493

UNIPROT ID:

Q14190

Full Name:

single-minded homolog 2 (Drosophila)

Calculated MW:

667 aa, 73 kDa

Observed MW:

60-64 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

Tested Applications:

WB, IP, ELISA

Cited Applications:

ChIP

Species Specificity:

human, mouse

Cited Species:

human

Positive Controls:

WB: COLO 320 cells, human skeletal muscle tissue, HeLa cells, HepG2 cells, U-251 cells

IP: mouse skeletal muscle tissue,

## Background Information

SIM2, also named as single-minded homolog 2, is a 667 amino acid protein, which contains 1 bHLH (basic helix-loop-helix) domain and one PAS-associated C-terminal domain. SIM2 localizes in the nucleus and has two isoforms. Isoform SIM2 is a 73 kDa protein and Isoform SIM2S is 63 kDa protein. SIM2 as a transcription factor may be a master gene of CNS development in cooperation with Arnt. It may have pleiotropic effects in the tissues expressed during development.

## Notable Publications

Author	Pubmed ID	Journal	Application
Emily Lyn Button	35730699	Biochem J	ChIP

## 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

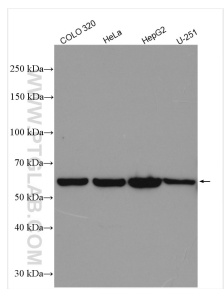
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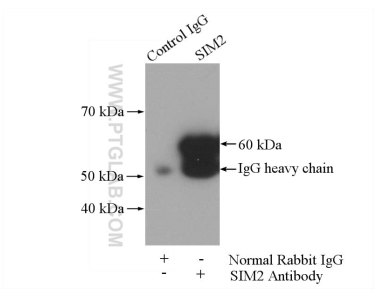
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21069-1-AP (SIM2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-SIM2 (IP:21069-1-AP, 4ug; Detection:21069-1-AP 1:800) with mouse skeletal muscle tissue lysate 2200ug.