

For Research Use Only

# SIAH2 Polyclonal antibody

Catalog Number: 12651-1-AP

Featured Product

10 Publications



## Basic Information

**Catalog Number:**

12651-1-AP

**Size:**

450 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG3342

**GenBank Accession Number:**

BC013082

**GeneID (NCBI):**

6478

**UNIPROT ID:**

O43255

**Full Name:**

seven in absentia homolog 2  
(Drosophila)

**Calculated MW:**

324 aa, 35 kDa

**Observed MW:**

35-40 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:200-1:1000

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

IHC 1:50-1:500

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IP, IF, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse

**Positive Controls:**

**WB:** mouse brain tissue,

**IP:** MCF-7 cells,

**IHC:** mouse brain tissue,

**IF:** MCF-7 cells,

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

## Background Information

The mammalian Seven-in-absentia homolog 2 (SIAH2), is a RING finger type ubiquitin ligase with a catalytic RING domain on its N-terminus, followed by two zinc fingers and a C-terminal substrate binding domain. Siah is a mammalian homolog of Sina, a Drosophila protein functioning in eye development. Mammals express two isoforms, Siah1 and 2, and mice exhibit two Siah1 isotypes, 1a and 1b. SIAH2 indirectly regulates the level of HIF-1 $\alpha$  by promoting degradation of PHDs by UPS. SIAH2, in turn, is positively regulated by hypoxia-dependent transcriptional and posttranscriptional mechanisms.

## Notable Publications

Author	Pubmed ID	Journal	Application
Min Luo	33199845	Nat Cell Biol	WB
Qian-Wen Zheng	34822586	Toxins (Basel)	WB,IP
Fang Huang	35524561	Nucleic Acids Res	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:

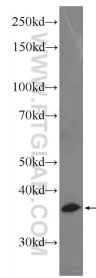
T: 4006900926

E: Proteintech-CN@ptglab.com

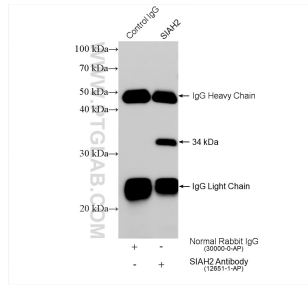
W: ptgcn.com

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

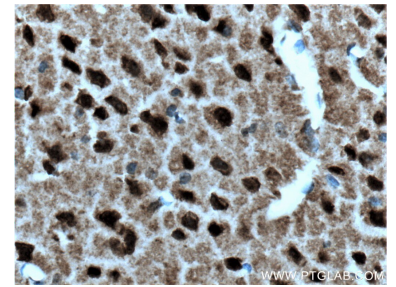
## Selected Validation Data



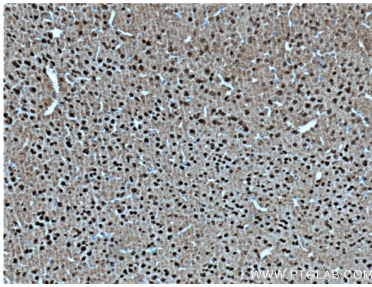
mouse brain tissue were subjected to SDS PAGE followed by western blot with 12651-1-AP (SIAH2 Antibody) at dilution of 1:300 incubated at 4 degree celsius over night.



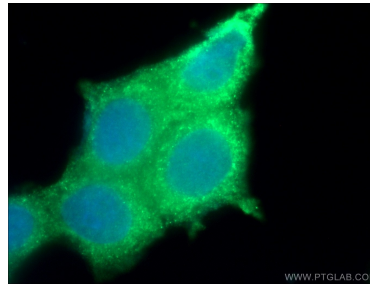
IP result of anti-SIAH2 (IP:12651-1-AP, 4ug; Detection:12651-1-AP 1:500) with MCF-7 cells lysate 760 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12651-1-AP (SIAH2 antibody) at dilution of 1:100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12651-1-AP (SIAH2 antibody) at dilution of 1:100 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 12651-1-AP (SIAH2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).