

For Research Use Only

SHOC2/Sur-8 Polyclonal antibody

Catalog Number: 17561-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number:

17561-1-AP

Concentration:

650 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG11754

GenBank Accession Number:

BC050445

GeneID (NCBI):

8036

UNIPROT ID:

Q9UQ13

Full Name:

soc-2 suppressor of clear homolog (C. elegans)

Calculated MW:

582 aa, 65 kDa

Observed MW:

65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, monkey

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

Positive Controls:

WB : MCF-7 cells, Jurkat cells, mouse brain tissue, rat testis tissue, U-251 cells

IHC : human renal cell carcinoma tissue, human kidney tissue, mouse brain tissue, mouse kidney tissue

IF/ICC : HeLa cells, MCF-7 cells

Background Information

SHOC2 is also named as Sur-8. The SHOC2 protein, along with MRAS and PP1C, forms a high affinity, heterotrimeric holoenzyme that activates RAF kinases by dephosphorylating a specific phosphoserine (PMID: 37074066). SHOC2, a key protein mediating the Ras-Raf-ERK pathway, could act as a scaffolding protein to facilitate the activation of the pathway by mediating the interaction of key components of the pathway (PMID: 37170083). The scaffold protein Shoc2 is a critical modulator of ERK1/2 signals, and mutations in the shoc2 gene lead to the human developmental disease known as Noonan-like syndrome with loose anagen hair (NSLH) (PMID: 36265687).

Notable Publications

Author	Pubmed ID	Journal	Application
Eun Ryoung Jang	26519477	J Cell Sci	WB,IP
Hideki Terai	33106373	Mol Cancer Res	IHC
Eun Ryoung Jang	25022756	Mol Cell Biol	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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

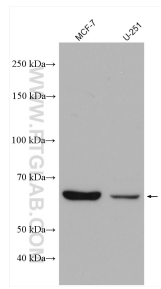
T: 4006900926

E: Proteintech-CN@ptglab.com

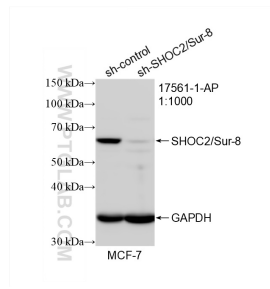
W: ptgcn.com

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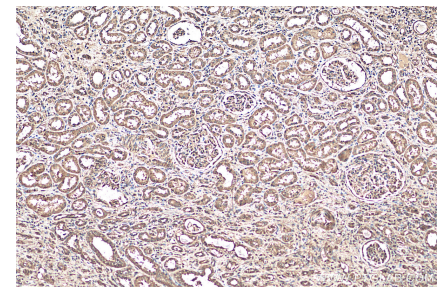
Selected Validation Data



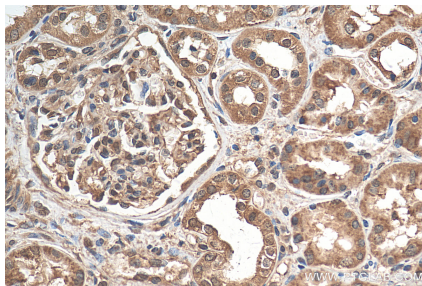
Various lysates were subjected to SDS PAGE followed by western blot with 17561-1-AP (Sur-8 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



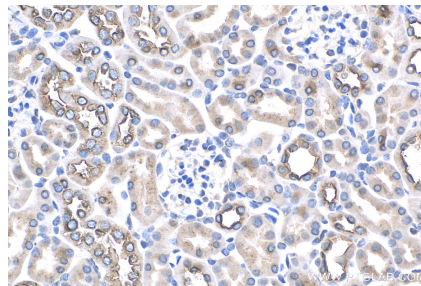
WB result of SHOC2/Sur-8 antibody (17561-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SHOC2/Sur-8 transfected MCF-7 cells.



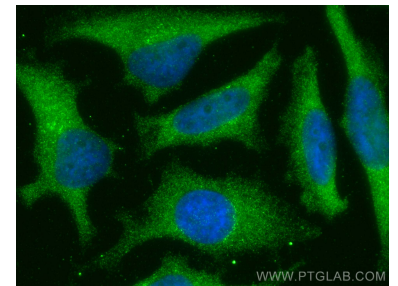
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 17561-1-AP (Sur-8 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



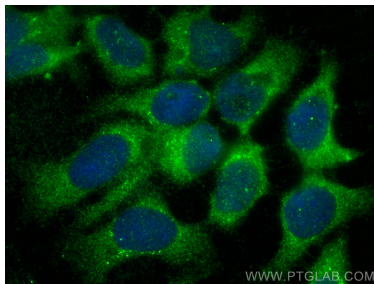
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 17561-1-AP (Sur-8 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



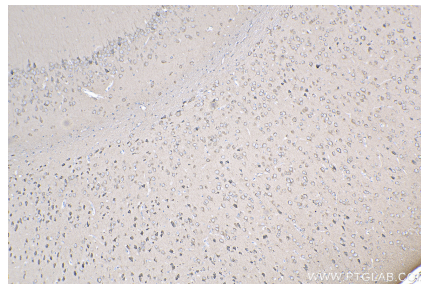
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 17561-1-AP (Sur-8 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



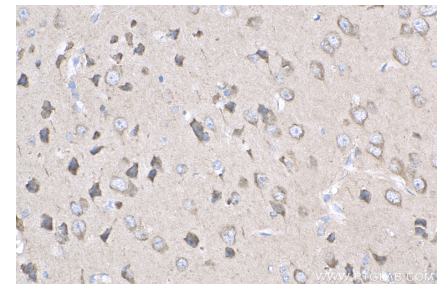
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Sur-8 antibody (17561-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using Sur-8 antibody (17561-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17561-1-AP (Sur-8 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17561-1-AP (Sur-8 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).