

For Research Use Only

SIGMAR1 Polyclonal antibody

Catalog Number: 15168-1-AP

Featured Product

49 Publications



Basic Information

Catalog Number:

15168-1-AP

Concentration:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7351

GenBank Accession Number:

BC004899

GeneID (NCBI):

10280

UNIPROT ID:

Q99720

Full Name:

sigma non-opioid intracellular
receptor 1

Calculated MW:

25 kDa

Observed MW:

27 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:250-1:1000

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat, zebrafish

Cited Species:

human, mouse, rat, monkey, zebrafish

**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 : COLO 320 cells, mouse kidney tissue, mouse
colon tissue, rat colon tissue

IHC : human liver cancer tissue, rat brain tissue

Background Information

SIGMAR1, also named as OPRS1, SRBP, SIG-1R and AAG8, belongs to the ERG2 family. It is an endoplasmic reticulum chaperone that binds a wide variety of ligands, including neurosteroids, psychostimulants, and dextrobenzomorphans. SIGMAR1 is ubiquitously expressed, and is enriched in motor neurons of the brain and spinal cord. It plays a role in calcium signaling through modulation together with ANK2 of the ITP3R-dependent calcium efflux at the endoplasmic reticulum. SIGMAR1 plays a role in several other cell functions including proliferation, survival and death. SDS-PAGE and Western blot analysis showed that SIGMAR1 has an apparent molecular mass of 28 kDa. SIGMAR1 has 5 isoforms with MW 21-27kDa and 12kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Danyang Liu	34582837	Exp Neurol	WB, IF
Ema Onode	36122572	J Reconstr Microsurg	IHC
Zheng Wang	36204848	Neural Regen Res	IHC

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:

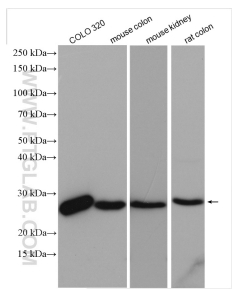
T: 4006900926

E: Proteintech-CN@ptglab.com

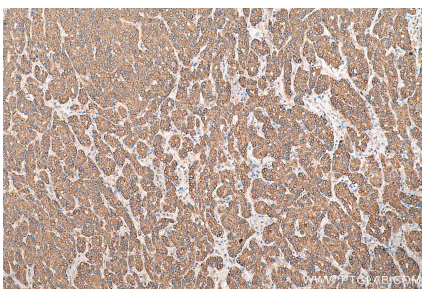
W: ptgcn.com

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

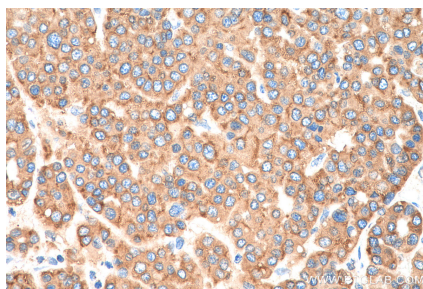
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15168-1-AP (SIGMAR1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15168-1-AP (SIGMAR1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15168-1-AP (SIGMAR1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).