

For Research Use Only

SIGMAR1 Polyclonal antibody

Catalog Number: 15168-1-AP

Featured Product

35 Publications



Basic Information

Catalog Number: 15168-1-AP	GenBank Accession Number: BC004899	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 µg/ml by Nanodrop;	GeneID (NCBI): 10280	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:250-1:1000
Source: Rabbit	Full Name: sigma non-opioid intracellular receptor 1	
Isotype: IgG	Calculated MW: 25 kDa	
Immunogen Catalog Number: AG7351	Observed MW: 27 kDa	

Applications

Tested Applications:
IHC, WB, ELISA

Cited Applications:
CoIP, IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse, 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

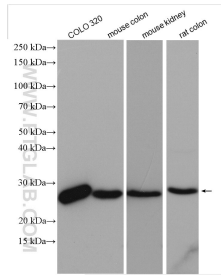
For technical support and original validation data for this product please contact:

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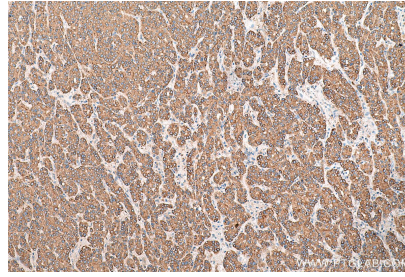
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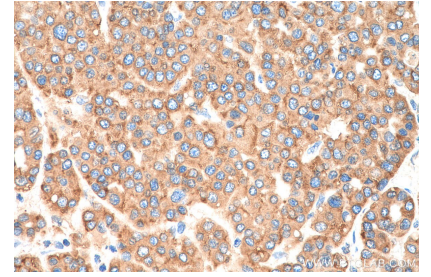
Selected Validation Data



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).