

OAS2 Polyclonal antibody

Catalog Number: 19279-1-AP

Featured Product

17 Publications

Basic Information

Catalog Number:

19279-1-AP

Size:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6170

GenBank Accession Number:

BC049215

GeneID (NCBI):

4939

UNIPROT ID:

P29728

Full Name:

2'-5'-oligoadenylate synthetase 2,
69/71kDa

Calculated MW:

82 kDa

Observed MW:

66-71 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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, IF, IHC

Species Specificity:

human

Cited Species:

human, mouse

**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: IFN alpha treated A549 cells,

IP: Jurkat cells,

IHC: human liver cancer tissue, human breast cancer
tissue

IF: HepG2 cells,

Background Information

The 2-prime,5-prime oligoadenylate synthetases (OASs), such as OAS2, are IFN-induced proteins characterized by their capacity to catalyze the synthesis of 2-prime,5-prime oligomers of adenosine (2-5As). OAS2 is also named as p69 OAS / p71 OAS. It has 3 isoforms(71/69/20 kDa) produced by alternative splicing. The OAS2 isozymes are 69-71 kDa and form dimers(PMID:17765707). Glycosylation is essential for its activity(PMID:9880569). Constitutive expression of the 69-kDa form of the OAS2 protein in human cells inhibited the replication of encephalomyocarditis virus (EMCV) but not that of VSV, Sendai virus, or reovirus(PMID:16501108). This antibody is specific to isoform p71 and isoform p69 of OAS2.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------------|-----------|-------------------|-------------|
| Arthur Wickenhagen | 34581622 | Science | WB |
| Liang Zhang | 30258002 | J Virol | WB |
| Yan-Zhou Huang | 35305973 | J Invest Dermatol | 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

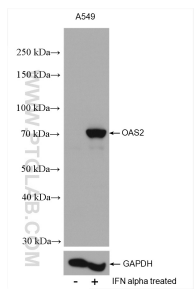
For technical support and original validation data for this product please contact:

T: 4006900926

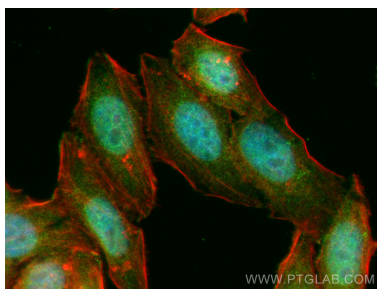
E: Proteintech-CN@ptglab.comW: ptgcn.com

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Group brand and is not available to purchase from any
other manufacturer.**

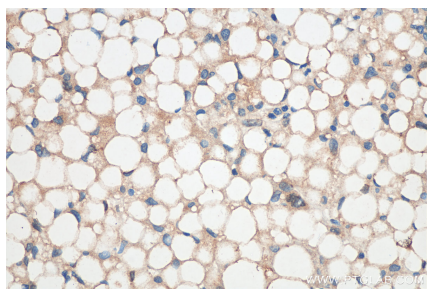
Selected Validation Data



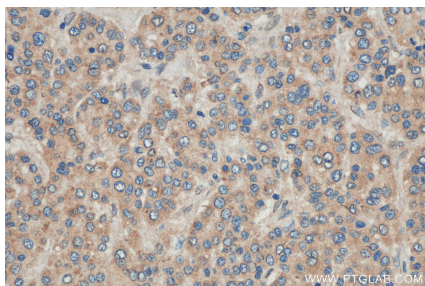
IFN alpha treated A549 cells were subjected to SDS PAGE followed by western blot with 19279-1-AP (OAS2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



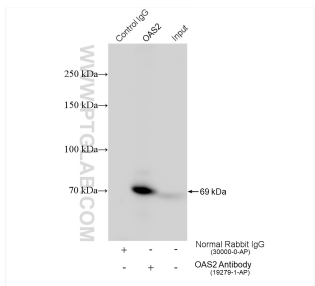
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using OAS2 antibody (19279-1-AP) at dilution of 1:200 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 19279-1-AP (OAS2 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 human liver cancer tissue slide using 19279-1-AP (OAS2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-OAS2 (IP:19279-1-AP, 4ug; Detection:19279-1-AP 1:500) with Jurkat cells lysate 2280 ug.