

For Research Use Only

OAS2 Polyclonal antibody

Catalog Number: 19279-1-AP

Featured Product

17 Publications



Basic Information

Catalog Number: 19279-1-AP	GenBank Accession Number: BC049215	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop;	GeneID (NCBI): 4939	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: 2'-5'-oligoadenylate synthetase 2, 69/71kDa	IHC 1:50-1:500 IF 1:50-1:500
Isotype: IgG	Calculated MW: 82 kDa	
Immunogen Catalog Number: AG6170	Observed MW: 66-71 kDa	

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human

Cited Species:
human, mouse

Positive Controls:

WB: IFN alpha treated A549 cells,

IP: Jurkat cells,

IHC: human liver cancer tissue, human breast cancer tissue

IF: HepG2 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 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

*** 20ul sizes contain 0.1% BSA

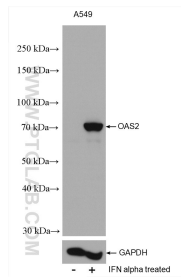
For technical support and original validation data for this product please contact:

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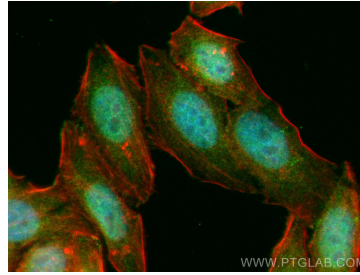
E: proteintech@ptglab.com
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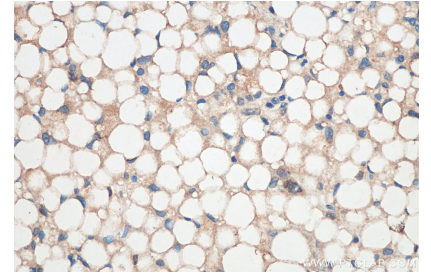
Selected Validation Data



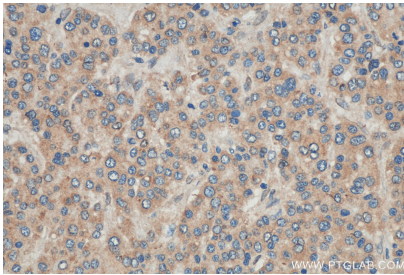
IFN alpha treated A549 cells were subjected to SDS PAGE followed by western blot with 19279-1-AP (OAS2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



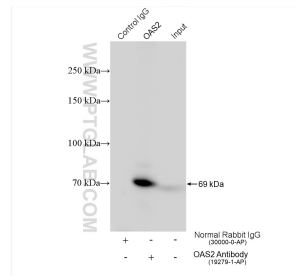
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using OAS2 antibody (19279-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



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.