

For Research Use Only

# OAS1/3 Polyclonal antibody

Catalog Number:14955-1-AP

Featured Product

29 Publications



## Basic Information

**Catalog Number:**

14955-1-AP

**Size:**

150ul , Concentration: 500 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG6793

**GenBank Accession Number:**

BC000562

**GeneID (NCBI):**

4938

**UNIPROT ID:**

P00973

**Full Name:**

2',5'-oligoadenylate synthetase 1, 40/46kDa

**Calculated MW:**

46 kDa

**Observed MW:**

~40 kDa, 100-120 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IHC 1:100-1:400

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, ELISA

**Cited Applications:**

WB, IHC, IF, CoIP

**Species Specificity:**

human, mouse

**Cited Species:**

human, mouse, rat, pig

**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 HeLa cells, mouse brain tissue

IHC : human liver tissue,

IF/ICC : A431 cells,

## Background Information

The 2-prime,5-prime oligoadenylate synthetases (OASs), such as OAS1, are interferon-induced proteins characterized by their capacity to catalyze the synthesis of 2-prime,5-prime oligomers of adenosine (2-5As). OAS1 (type I enzymes) has some isoforms with the MW of 40, 42, 44, 46, and 48 kDa (PMID:12590567, 19383565). OAS1 is a strong candidate for determining susceptibility or resistance to viral infections(PMID:15732009). This antibody may have cross-reaction with OAS3 protein due to the high homology.

## Notable Publications

Author	Pubmed ID	Journal	Application
Huanru Wang	31575039	Int J Mol Sci	WB
Arthur Wickenhagen	34581622	Science	WB
Li Che	34731560	Acta Biochim Pol	WB

## 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

\*\*\* 20ul sizes contain 0.1% BSA

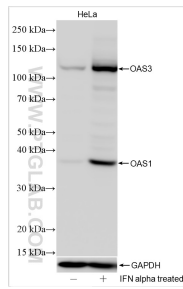
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

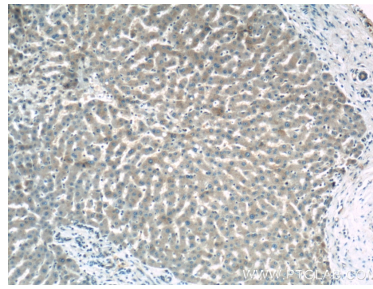
E: proteintech@ptglab.com  
W: ptglab.com

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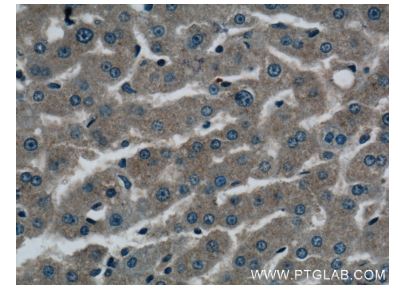
## Selected Validation Data



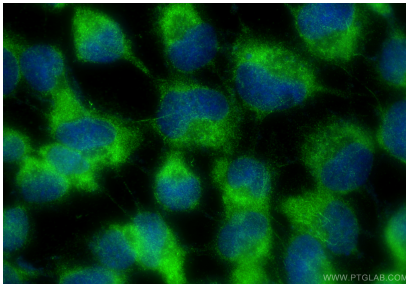
Untreated and IFN alpha treated HeLa cells were subjected to SDS PAGE followed by western blot with 14955-1-AP (OAS1/3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 14955-1-AP (OAS1/3 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 14955-1-AP (OAS1/3 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using OAS1/3 antibody (14955-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).