

For Research Use Only

# OAS1/3 Polyclonal antibody

Catalog Number: 14955-1-AP

Featured Product

24 Publications



## Basic Information

<b>Catalog Number:</b> 14955-1-AP	<b>GenBank Accession Number:</b> BC000562	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 500 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4938	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:100-1:400 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> 2',5'-oligoadenylate synthetase 1, 40/46kDa	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 46 kDa	
<b>Immunogen Catalog Number:</b> AG6793	<b>Observed MW:</b> ~40 kDa, 100-120 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

CoIP, IF, IHC, WB

### Species Specificity:

human, mouse

### Cited Species:

human, rat, mouse, 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: HeLa 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

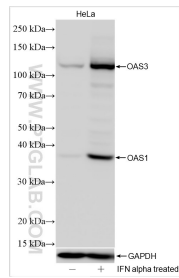
For technical support and original validation data for this product please contact:

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

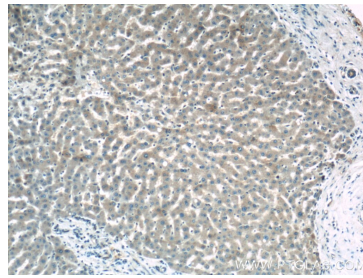
E: proteintech@ptglab.com  
W: ptglab.com

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

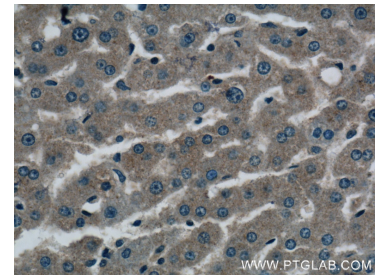
## Selected Validation Data



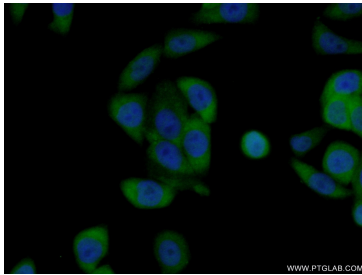
Untreated and IFN alpha treated HeLa cells were subjected to SDS PAGE followed by western blot with 14955-1-AP (OAS1/3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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 (10% Formaldehyde) fixed HeLa cells using 14955-1-AP (OAS1/3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).