

For Research Use Only

OAS1 Recombinant antibody

Catalog Number: 82883-1-RR

1 Publications



Basic Information

Catalog Number:	82883-1-RR	GenBank Accession Number:	BC000562	Purification Method:	Protein A purification
Size:	100ul , Concentration: 800 ug/ml by Nanodrop;	GeneID (NCBI):	4938	CloneNo.:	2H4
Source:	Rabbit	UNIPROT ID:	P00973	Recommended Dilutions:	WB 1:1000-1:8000 IHC 1:200-1:800
Isotype:	IgG	Full Name:	2',5'-oligoadenylate synthetase 1, 40/46kDa		
Immunogen Catalog Number:	AG6793	Calculated MW:	46 kDa		
		Observed MW:	38 kDa		

Applications

Tested Applications:	WB, IHC, FC (Intra), ELISA	Positive Controls:	
Species Specificity:	human, mouse	WB :	HeLa cells, A549 cells
		IHC :	mouse liver tissue, mouse spleen tissue
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 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Kun Yang	39112803	EMBO J	

Storage

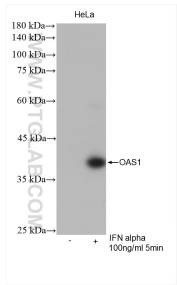
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

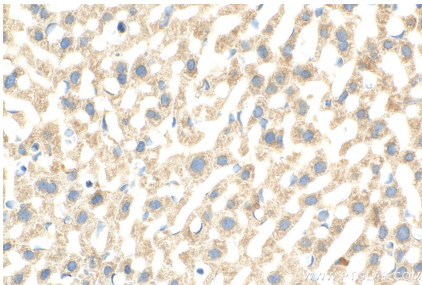
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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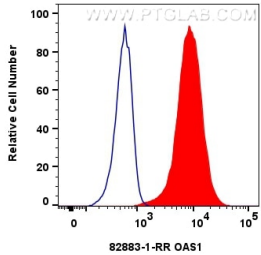
Selected Validation Data



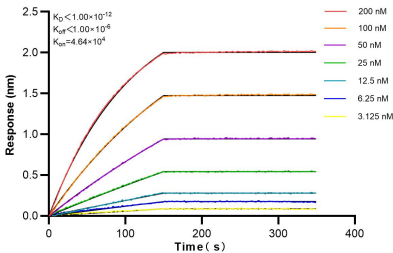
Various lysates were subjected to SDS PAGE followed by western blot with 82883-1-RR (OAS1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 82883-1-RR (OAS1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug OAS1 Recombinant antibody (82883-1-RR, Clone:2H4) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 82883-1-RR against Human OAS1 were performed. The affinity constant is below 1 pM.