



## Rabbit Anti-OAS1 antibody

SL0687R

**Product Name** OAS1**Chinese Name** 寡腺苷酸合成酶-1 抗体**Alias** 2',5'-oligoadenylate synthetase 1; (2' 5')oligo(A) synthetase 1 ; (2' 5')oligo(A) synthetase 1; 2' 5' Oligoadenylate Synthetase 1; 2' 5A synthetase 1; 2' 5' oligo A synthetase 1; 2' 5' oligoadenylate synthetase 1; 2' 5' oligoisoadenylate synthetase 1; 2'5' oligo A synthetase 1; 2'5' oligoadenylate synthetase 1; 2'5' oligoisoadenylate synthetase 1; E18/E16; IFI 4; IFI4; OAS 1; OIAS; OIASI; p46/p42 OAS; OAS1\_HUMAN.**Research Area** Kinases and Phosphatases**Immunogen Species** Rabbit**Clonality** Polyclonal**React Species** Human (predicted:Mouse,Pig)**Applications** WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/Test  
(Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.**Theoretical molecular weight** 40/46kDa**Cellular localization** The nucleus cytoplasmic**Form** Liquid**Concentration** 1mg/ml**immunogen** KLH conjugated synthetic peptide derived from human OAS1: 1-100/400**Lsotype** IgG**Purification** affinity purified by Protein A**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.**Attention** This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

**PubMed**

[PubMed](#)

This protein is an enzyme included in the 2', 5' oligoadenylate synthase family. This enzyme is induced by interferons and catalyzes the 2', 5' oligomers of adenosine in order to bind and activate RNase L. This enzyme family plays a significant role in the inhibition of cellular protein synthesis and viral infection resistance.

**Function:**

Interferon-induced, dsRNA-activated antiviral enzyme which plays a critical role in cellular innate antiviral response. In addition, it may also play a role in other cellular processes such as apoptosis, cell growth, differentiation and gene regulation. Synthesizes higher oligomers of 2'-5'-oligoadenylates (2-5A) from ATP which then bind to the inactive monomeric form of ribonuclease L (RNase L) leading to its dimerization and subsequent activation. Activation of RNase L leads to degradation of cellular as well as viral RNA, resulting in the inhibition of protein synthesis, thus terminating viral replication. Can mediate the antiviral effect via the classical RNase L-dependent pathway or an alternative antiviral pathway independent of RNase L. The secreted form displays antiviral effect against vesicular stomatitis virus (VSV), herpes simplex virus type 2 (HSV-2), and encephalomyocarditis virus (EMCV) and stimulates the alternative antiviral pathway independent of RNase L.

**Product  
Detail**

**Subunit:**

Monomer. Homotetramer.

**Subcellular Location:**

Cytoplasm. Mitochondrion. Nucleus. Microsome. Endoplasmic reticulum. Secreted.  
Note=Associated with different subcellular fractions such as mitochondrial, nuclear, and rough/smooth microsomal fractions.

**Similarity:**

Belongs to the 2-5A synthase family.

**SWISS:**

P00973

**Gene ID:**

4938

**Database links:**

[Entrez Gene: 347699](#) Cow

[Entrez Gene: 4938](#) Human

[Entrez Gene: 397570](#) Pig

[Entrez Gene: 192281](#) Rat

[Omim: 164350](#) Human

[SwissProt: P00973](#) Human

[SwissProt: P11928](#) Mouse

[SwissProt: Q29599](#) Pig

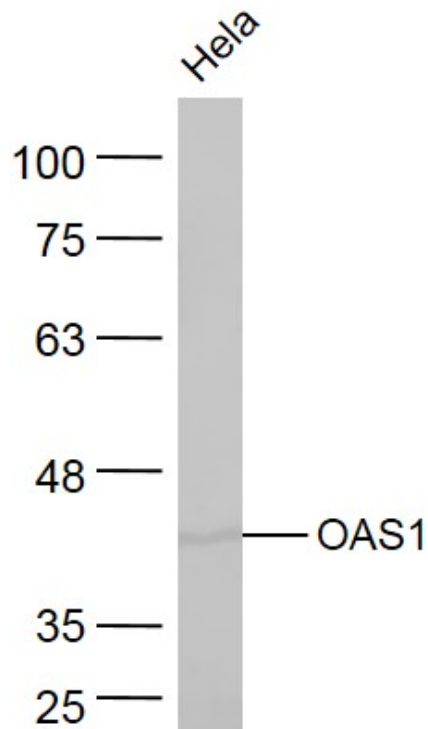
[SwissProt: Q05961](#) Rat

[Unigene: 524760](#) Human

[Unigene: 10383](#) Rat

用于免疫调控通路的研究。主要用于系统性红斑狼疮方面的研究。

**Product  
Picture**



Sample:

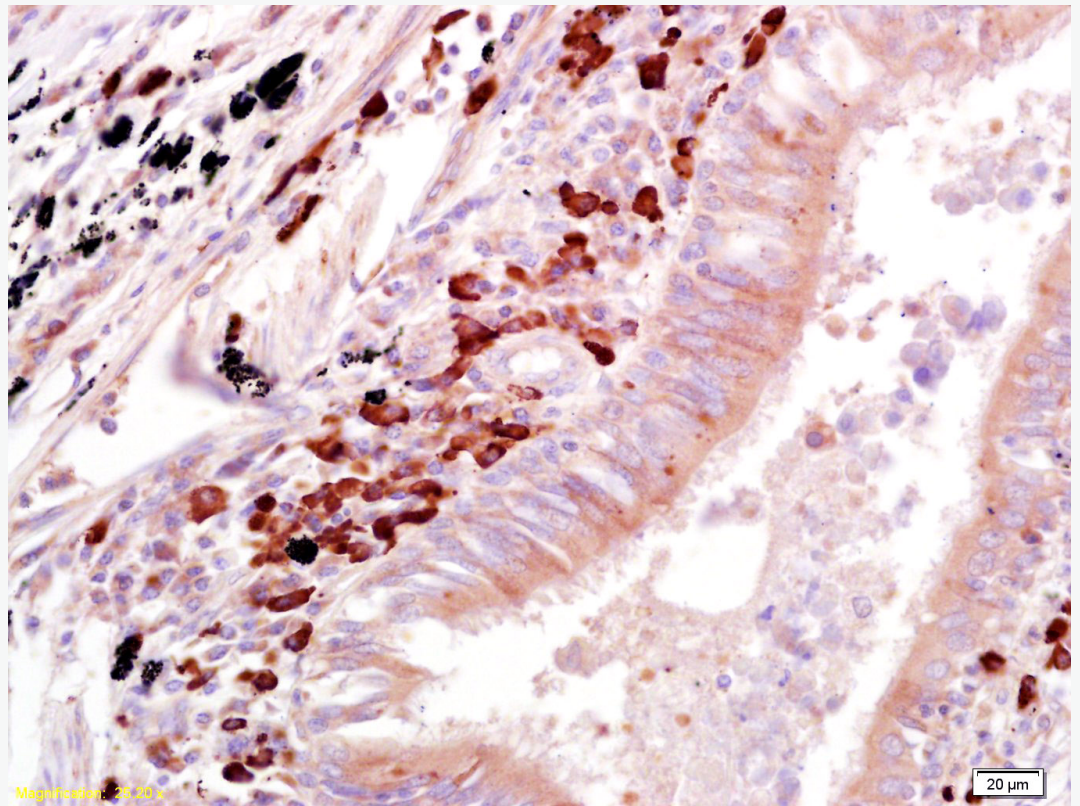
HeLa(Human) Cell Lysate at 40 ug

Primary: Anti-OAS1 (SL0687R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 40/46 kD

Observed band size: 40 kD



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;



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Incubation: Anti-OAS1 Polyclonal Antibody, Unconjugated(SL0687R) 1:200,  
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and  
DAB(C-0010) staining