SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-OAS1 antibody

SL0687R

Product Name:	OAS1
Chinese Name:	寡腺苷酸合成酶-1
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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	40/46kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human OAS1:1-100/400
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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: 347699Cow

Entrez Gene: 4938Human

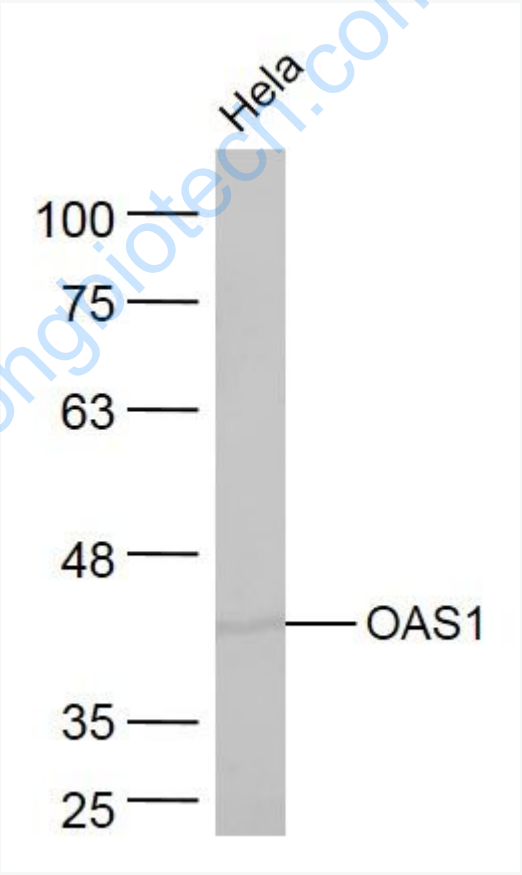
Entrez Gene: 397570Pig

Entrez Gene: 192281Rat

Omim: 164350Human

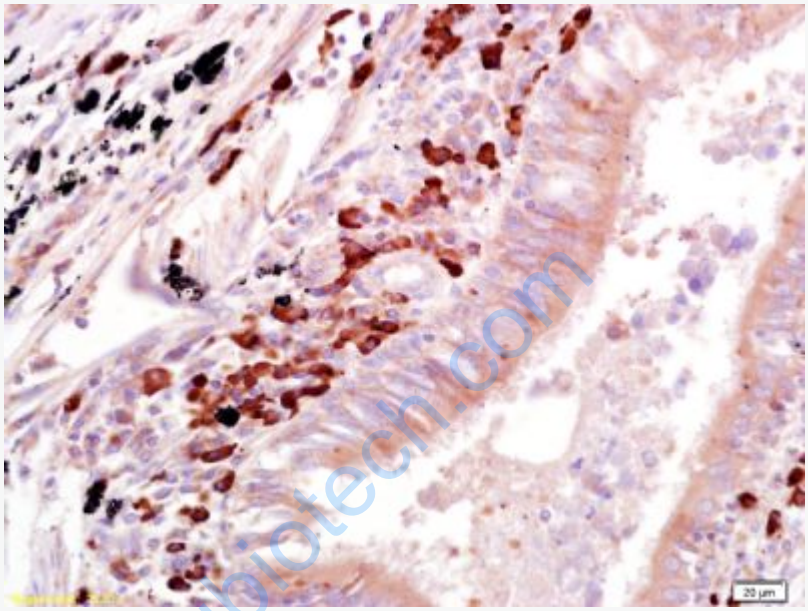
SwissProt: P00973Human

SwissProt: P11928Mouse

	SwissProt: Q29599Pig SwissProt: Q05961Rat Unigene: 524760Human Unigene: 10383Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 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。
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 (0.01M, 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℃ for 20 min;

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