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

[Primary Antibody]

Rabbit Anti-OAS2 antibody

Catalog Number: SL15588R

FOR RESEARCH USE ONLY

[DATASHEET]

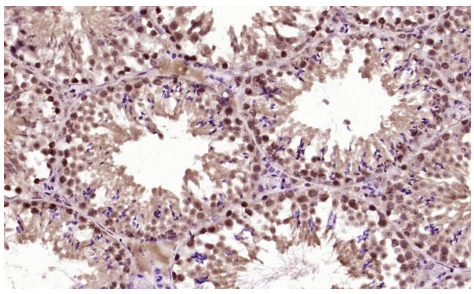
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	OAS2
Immunogen:	KLH conjugated synthetic peptide derived from human OAS2: 401-500/719
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Dog,Pig)
Predicted MW.:	82kDa
Subcellular Location:	The nucleus cytoplasmic Mitochondrion
Background:	This gene encodes a member of the 2-5A synthetase family, essential proteins involved in the innate immune response to viral infection. The encoded protein is induced by interferons and uses adenosine triphosphate in 2'-specific nucleotidyl transfer reactions to synthesize 2',5'-oligoadenylates (2-5As). These molecules activate latent RNase L, which results in viral RNA degradation and the inhibition of viral replication. The three known members of this gene family are located in a cluster on chromosome 12. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]. **Function:** Interferon-induced, dsRNA-activated antiviral enzymewhich plays a critical role in cellular innate antiviral response.In addition, it may also play a role in other cellular processessuch as apoptosis, cell growth, differentiation and generegulation. Synthesizes higher oligomers of 2'-5'-oligoadenylates(2-

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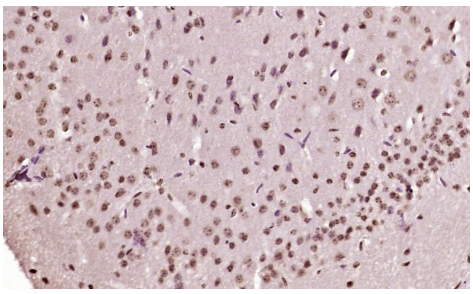
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	5A) from ATP which then bind to the inactive monomeric form ofribonuclease L (RNase L) leading to its dimerization and subsequentactivation. Activation of RNase L leads to degradation of cellularas well as viral RNA, resulting in the inhibition of proteinsynthesis, thus terminating viral replication. Can mediate theantiviral effect via the classical RNase L-dependent pathway or analternative antiviral pathway independent of RNase L.[CATALYTIC ACTIVITY] 3 ATP = pppA2'p5'A2'p5'A + 2 diphosphate. **Subunit:** Homodimer. **Subcellular Location:** Cytoplasm. Cytoplasm, perinuclear region. Mitochondrion. Nucleus. Microsome. Endoplasmic reticulum.Note=Associated with different subcellular fractions such asmitochondrial, nuclear, and rough/smooth microsomal fractions. **Post-translational modifications:** Myristoylation is not essential for its activity. Glycosylated. Glycosylation is essential for its activity. **Similarity:** Belongs to the 2-5A synthase family. **Database links:** **Entrez Gene:** 4939 Human **Entrez Gene:** 246728 Mouse Omim: 603350 Human **SwissProt:** P29728 Human **SwissProt:** E9Q9A9 Mouse **Unigene:** 414332 Human **Unigene:** 260926 Mouse

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (OAS2) Polyclonal Antibody, Unconjugated (SL15588R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (OAS2) Polyclonal Antibody, Unconjugated (SL15588R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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