



OAS1 antibody - middle region (ARP51359_P050)

Data Sheet

Product Number	ARP51359_P050
Product Name	OAS1 antibody - middle region (ARP51359_P050)
Size	50ug
Gene Symbol	OAS1
Alias Symbols	IFI-4; OIAS; OIASI
Nucleotide Accession#	NM_001032409
Protein Accession#	NP_001027581
Swissprot Id	P00973-3
Protein Size (# AA)	414 amino acids
Molecular Weight	47kDa




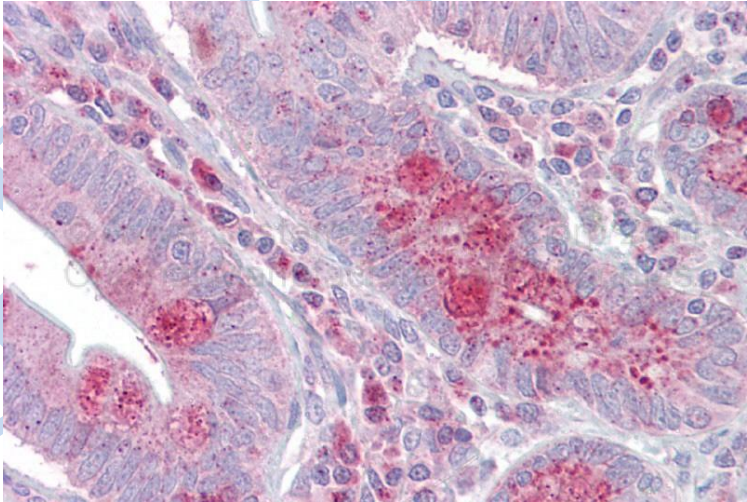
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Product Format	Lyophilized powder
NCBI Gene Id	4938
Host	Rabbit
Clonality	Polyclonal
Purification	Affinity Purified
Official Gene Full Name	2'-5'-oligoadenylate synthetase 1, 40/46kDa
Description	This is a rabbit polyclonal antibody against OAS1. It was validated on Western Blot using a cell lysate as a positive control. Aviva Systems Biology strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein.
Peptide Sequence	Synthetic peptide located within the following region: RRQLTKPRPVILDPADPTGNLGGGDPKGWRQLAQ EAEAWLNYPCKNWDG
Key Reference	Phosri,C., Mycol. Res. 111 (PT 3), 275-286 (2007)
Description of Target	This protein is 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



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	<p>replication. 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. Mutations in this gene have been associated with host susceptibility to viral infection. Alternatively spliced transcript variants encoding different isoforms have been described.</p>
Reconstitution and Storage	<p>Add 50 µl of distilled water. Final anti-OAS1 antibody concentration is 1 mg/ml in PBS buffer. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.</p>
Blocking Peptide	<p>For anti-OAS1 antibody is Catalog # AAP51359 (Previous Catalog # AAP523611)</p>
Immunogen	<p>The immunogen for anti-OAS1 antibody: synthetic peptide directed towards the middle region of human OAS1</p>
Reviews and Data	<p>Computational species homology for OAS1 antibody (ARP51359); Product Protocols: OAS1 antibody tested with Human Transfected 293T Cells (ARP51359_P050)</p>
Species Reactivity	<p>Human, Rat, Mouse, Bovine, Dog, Pig, Chicken</p>
Application	<p>WB, IHC</p>
Predicted Homology Based on Immunogen	<p>Human: 100%; Bovine: 93%; Dog: 93%; Horse: 93%; Rat: 93%; Pig: 92%; Mouse: 86%</p>

<p>Sequence</p>	
<p>Image 1</p>	<p>Transfected 293T</p>  <p>90 kDa_</p> <p>65 kDa_</p> <p>40 kDa_</p> <p>31 kDa_</p> <p>22 kDa_</p> <p>Rabbit Anti-OAS1 Antibody Catalog Number: ARP51359 Lot Number: QC17739 Lane: Transfected 293T Cell Lysate Antibody Titration: 1.0µg/ml Gel Concentration: 12%</p> <p>WB Suggested Anti-OAS1 Antibody Titration: 0.2-1 ug/ml</p> <p>ELISA Titer: 1:31250</p> <p>Positive Control: Transfected 293T</p>
<p>Image 2</p>	<p>Human Small intestine</p>  <p>Immunohistochemistry with Small intestine tissue</p>



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Optimal conditions of its use should be determined by end users.

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