

Datasheet for ABIN2773987

anti-OAS1 antibody (Middle Region)**3** Images**2** Publications[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	OAS1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Pig, Horse, Rabbit, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OAS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human OAS1
Sequence:	RRQLTKPRPV ILDPADPTGN LGGGDPKGWR QLAQEAEAWL NYPCFKNWDG
Predicted Reactivity:	Cow: 93%, Dog: 93%, Guinea Pig: 87%, Horse: 93%, Human: 100%, Mouse: 93%, Pig: 93%, Rabbit: 86%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against OAS1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	OAS1
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Target Details

Alternative Name:	OAS1 (OAS1 Products)
Background:	<p>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 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> <p>Alias Symbols: IFI-4, OIAS, OIASI</p> <p>Protein Interaction Partner: EXOC5, TRIM27, ACTN1, PRMT6, WBSCR22, RPL30, HCVgp1,</p> <p>Protein Size: 414</p>
Molecular Weight:	47 kDa
Gene ID:	4938
NCBI Accession:	NM_001032409 , NP_001027581
Pathways:	Hepatitis C

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 414 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

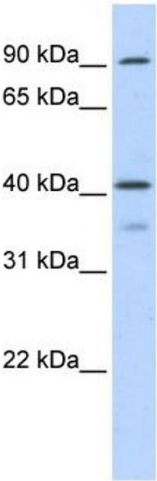
Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

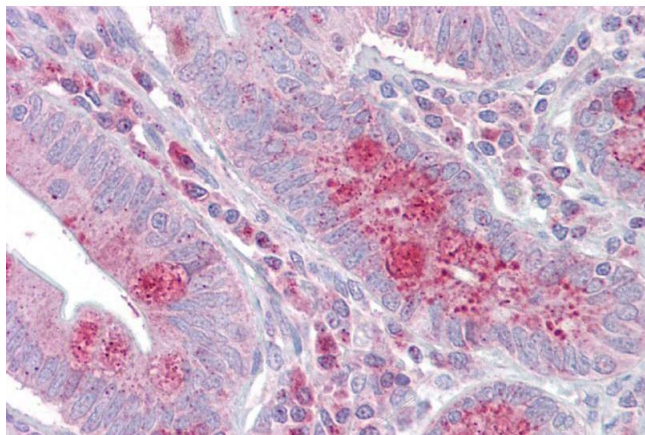
Product cited in:	Ewing, Chu, Elisma, Li, Taylor, Climie, McBroom-Cerajewski, Robinson, OConnor, Li, Taylor, Dharsee, Ho, Heilbut, Moore, Zhang, Ornatsky, Bukhman, Ethier, Sheng, Vasilescu, Abu-Farha, Lambert, Duewel et al.: "Large-scale mapping of human protein-protein interactions by mass spectrometry. ..." in: Molecular systems biology , Vol. 3, pp. 89, (2007) (PubMed).
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Images



Western Blotting

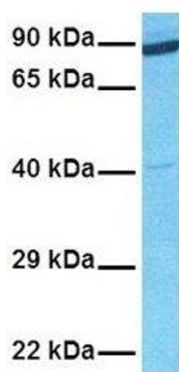
Image 1. WB Suggested Anti-OAS1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Transfected 293T



Immunohistochemistry

Image 2. Immunohistochemistry with Small intestine tissue at an antibody concentration of 5µg/ml using anti-OAS1 antibody (ARP51359_P050)

OAS1



Western Blotting

Image 3. Host: Rabbit Target Name: OAS1 Sample Tissue: Human Hela Antibody Dilution: 1.0ug/ml