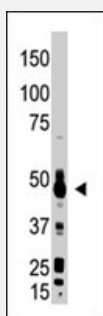


OAS1 polyclonal antibody

Catalog # PAB4810

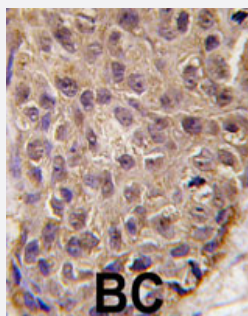
Size 400 uL

Applications



Western Blot (Tissue lysate)

The OAS1 polyclonal antibody (Cat # PAB4810) is used in Western blot to detect OAS1 in mouse liver lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with OAS1 polyclonal antibody (Cat # PAB4810), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of OAS1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human OAS1.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification

Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

The OAS1 polyclonal antibody (Cat # PAB4810) is used in Western blot to detect OAS1 in mouse liver lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — OAS1

Entrez GeneID	4938
Protein Accession#	NP_002525:P00973
Gene Name	OAS1
Gene Alias	IFI-4, OIAS, OIASI
Gene Description	2',5'-oligoadenylate synthetase 1, 40/46kDa
Omim ID	164350 222100
Gene Ontology	Hyperlink

Gene Summary

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 a deinosine 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. [provided by RefSeq]

Other Designations

(2'-5') oligoadenylate synthetase 1|2',5'-oligo A synthetase 1|2',5'-oligoadenylate synthetase 1|2',5'-oligoadenylate synthetase 1 (40-46 kD)|2'-5' oligoadenylate synthetase 1 p48 isoform|2'-5' oligoadenylate synthetase 1 p52 isoform|2'-5'-oligoisoadenylate synthetase 1

Publication Reference

- [Therapeutic gene silencing delivered by a chemically modified small interfering RNA against mutant SOD1 slows amyotrophic lateral sclerosis progression.](#)

Wang H, Ghosh A, Baigude H, Yang CS, Qiu L, Xia X, Zhou H, Rana TM, Xu Z.

The Journal of Biological Chemistry 2008 Mar; 283(23):15845.

- [A phylogenetically conserved RNA structure in the poliovirus open reading frame inhibits the antiviral endoribonuclease RNase L.](#)

Han JQ, Townsend HL, Jha BK, Paranjape JM, Silverman RH, Barton DJ.

Journal of Virology 2007 Mar; 81(11):5561.

- [IFI16 in human prostate cancer.](#)

Alimirah F, Chen J, Davis FJ, Choubey D.

Molecular Cancer Research 2007 Mar; 5(3):251.

Disease

- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Liver Cirrhosis](#)

- [Multiple Sclerosis](#)
- [Ovarian Neoplasms](#)
- [Severe Acute Respiratory Syndrome](#)
- [West Nile Fever](#)