

**OAS3 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6228a**

**Specification**

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**OAS3 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9Y6K5</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1056-1087

**OAS3 Antibody (C-term) - Additional Information**

**Gene ID** 4940

**Other Names**

2'-5'-oligoadenylate synthase 3, (2-5')oligo(A) synthase 3, 2-5A synthase 3, p100 OAS, p100OAS, OAS3

**Target/Specificity**

This OAS3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1056-1087 amino acids from the C-terminal region of human OAS3.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

OAS3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**OAS3 Antibody (C-term) - Protein Information**

**Name** OAS3

**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 preferentially dimers 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. Displays antiviral activity against Chikungunya virus (CHIKV), Dengue virus, Sindbis virus (SINV) and Semliki forest virus (SFV).

**Cellular Location**

Cytoplasm. Nucleus.

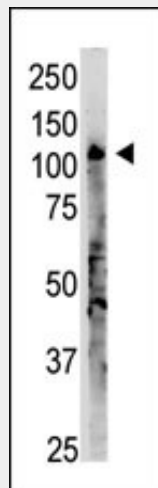
**Tissue Location**

Present at high level in placenta trophoblast.

**OAS3 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**OAS3 Antibody (C-term) - Images**

The anti-OAS3 C-term Antibody (Cat.#AP6228a) is used in Western blot to detect OAS3 in A375 lysate.

**OAS3 Antibody (C-term) - Background**

OAS3 is an interferon inducible protein that belongs to the 2-5A synthetase family, may play a role in mediating resistance to virus infection, control of cell growth, differentiation, and apoptosis. OAS3 synthesizes preferentially dimeric 2',5'-oligoadenylate molecules. GTP can be an alternative substrate. OAS3 binds double-stranded RNA and polymerizes ATP into PPP(A2'P5'A)N oligomers,

which activate the latent RNase L that, when activated, cleaves single-stranded RNAs. The protein is present at high level in placenta trophoblast.

#### **OAS3 Antibody (C-term) - References**

Ito, M., et al., Cancer Res. 61(5):2038-2046 (2001). Rebouillat, D., et al., Genomics 70(2):232-240 (2000). Rebouillat, D., et al., J. Biol. Chem. 274(3):1557-1565 (1999).

#### **OAS3 Antibody (C-term) - Citations**

- [The 2\'-5\' oligoadenylate synthetase 3 \(OAS3\) enzyme potentially synthesizes the 2\'-5\' oligoadenylates required for RNase L activation.](#)