

**OAS3 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF4078a

**Specification**

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**OAS3 Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">O9Y6K5</a>
Other Accession	<a href="#">NP_006178.2</a> , <a href="#">4940</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	121170

**OAS3 Antibody (internal region) - Additional Information**

**Gene ID** 4940

**Other Names**

2'-5'-oligoadenylate synthase 3, (2-5')oligo(A) synthase 3, 2-5A synthase 3, 2.7.7.84, p100 OAS, p100OAS, OAS3

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

OAS3 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**OAS3 Antibody (internal region) - 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 (internal region) - 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 (internal region) - Images**



AF4078a (2 µg/ml) staining of A431 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**OAS3 Antibody (internal region) - References**

The large form of human 2',5'-Oligoadenylate Synthetase (OAS3) exerts antiviral effect against Chikungunya virus. Bréhin AC, Casadémont I, Frenkiel MP, Julier C, Sakuntabhai A, Desprès P. Virology 2009 Feb 384 (1): 216-22. PMID: 19056102