

**OAS2 Antibody (internal region, near N-Term)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4076a****Specification**

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**OAS2 Antibody (internal region, near N-Term) - Product Information**

|                   |  |
|-------------------|--|
| Application       | WB, E  |
| Primary Accession | <a href="#">P29728</a>   |
| Other Accession   | <a href="#">NP_058197.2</a> , <a href="#">NP_002526.2</a> , <a href="#">NP_001027903.1</a> ,<br><a href="#">4939</a> |
| Reactivity        | Human  |
| Host              | Goat   |
| Clonality         | Polyclonal   |
| Concentration     | 0.5 mg/ml  |
| Isotype           | IgG  |
| Calculated MW     | 82431  |

**OAS2 Antibody (internal region, near N-Term) - Additional Information****Gene ID** 4939**Other Names**

2'-5'-oligoadenylate synthase 2, (2-5')oligo(A) synthase 2, 2-5A synthase 2, 2.7.7.84, p69 OAS / p71 OAS, p69OAS / p71OAS, OAS2

**Dilution**

WB~~1:1000

E~~N/A

**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**

OAS2 Antibody (internal region, near N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**OAS2 Antibody (internal region, near N-Term) - Protein Information****Name** OAS2 ([HGNC:8087](#))**Function**

Interferon-induced, dsRNA-activated antiviral enzyme which plays a critical role in cellular innate antiviral response (PubMed:&lt;a href="http://www.uniprot.org/citations/10464285"

target="\_blank">10464285</a>, PubMed:<a href="http://www.uniprot.org/citations/9880569" target="\_blank">9880569</a>). Activated by detection of double stranded RNA (dsRNA); polymerizes higher oligomers of 2'-5'- oligoadenylates (2-5A) from ATP which then bind to the inactive monomeric form of ribonuclease L (RNASEL) leading to its dimerization and subsequent activation (PubMed:<a href="http://www.uniprot.org/citations/10464285" target="\_blank">10464285</a>, PubMed:<a href="http://www.uniprot.org/citations/11682059" target="\_blank">11682059</a>, PubMed:<a href="http://www.uniprot.org/citations/9880569" target="\_blank">9880569</a>). Activation of RNASEL leads to degradation of cellular as well as viral RNA, resulting in the inhibition of protein synthesis, thus terminating viral replication (PubMed:<a href="http://www.uniprot.org/citations/10464285" target="\_blank">10464285</a>, PubMed:<a href="http://www.uniprot.org/citations/9880569" target="\_blank">9880569</a>). Can mediate the antiviral effect via the classical RNASEL-dependent pathway or an alternative antiviral pathway independent of RNASEL (PubMed:<a href="http://www.uniprot.org/citations/21142819" target="\_blank">21142819</a>). In addition, it may also play a role in other cellular processes such as apoptosis, cell growth, differentiation and gene regulation (PubMed:<a href="http://www.uniprot.org/citations/21142819" target="\_blank">21142819</a>). May act as a negative regulator of lactation, stopping lactation in virally infected mammary gland lobules, thereby preventing transmission of viruses to neonates (By similarity). Non-infected lobules would not be affected, allowing efficient pup feeding during infection (By similarity).

#### **Cellular Location**

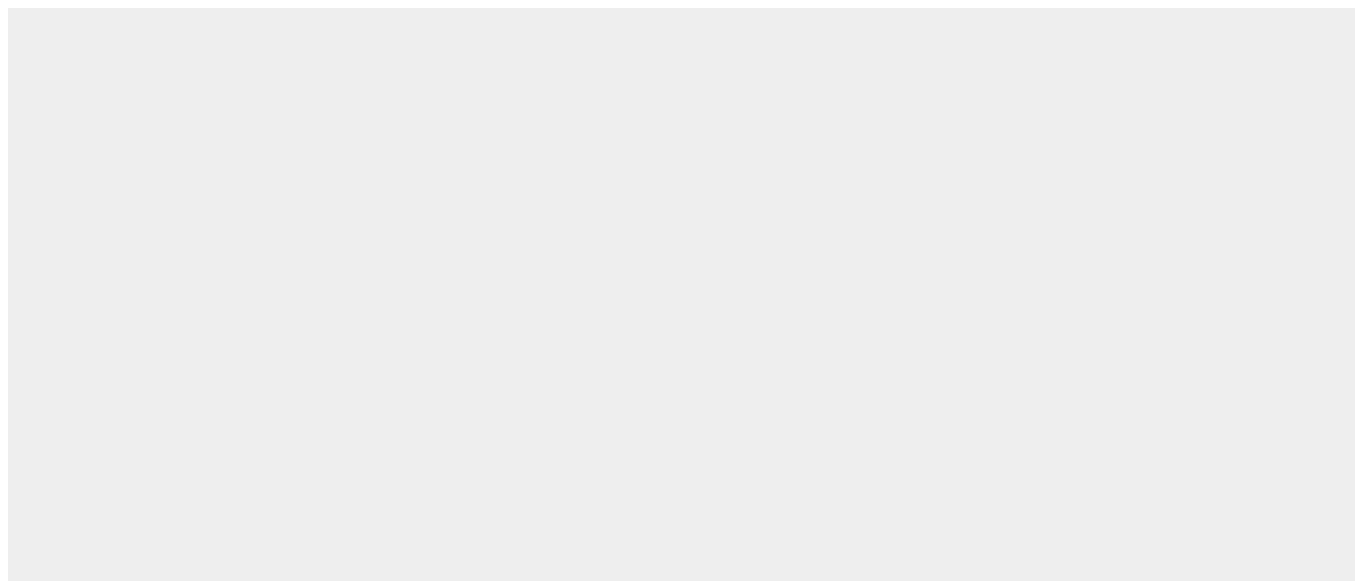
Cytoplasm. Cytoplasm, perinuclear region

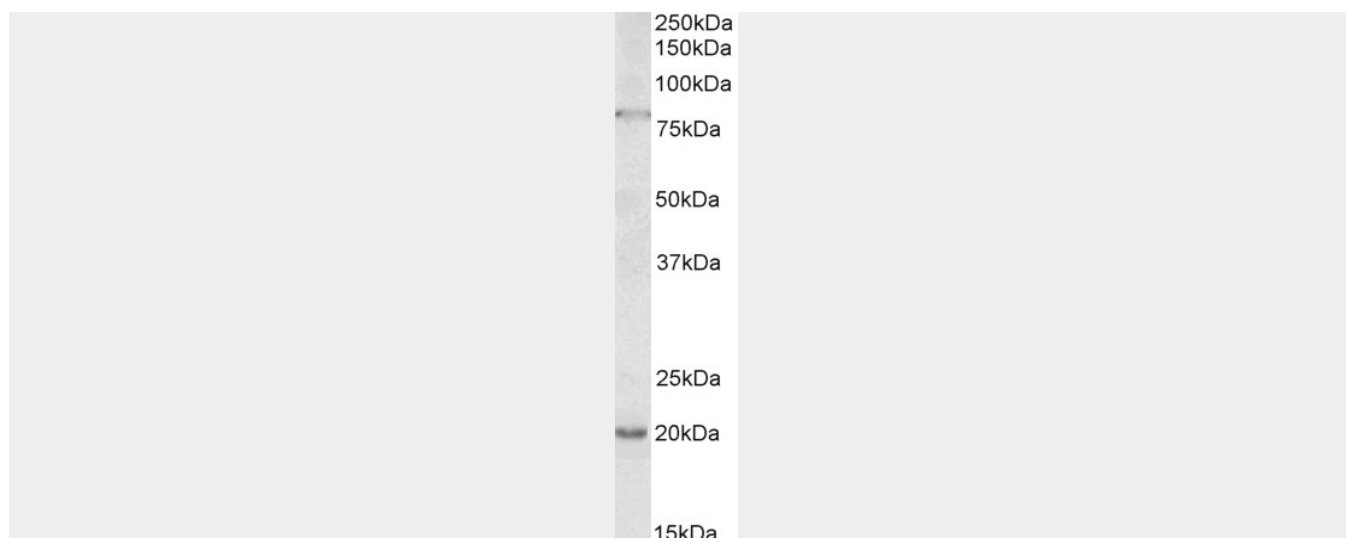
#### **OAS2 Antibody (internal region, near N-Term) - Protocols**

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](#)

#### **OAS2 Antibody (internal region, near N-Term) - Images**





AF4076a (1 µg/ml) staining of Jurkat lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **OAS2 Antibody (internal region, near N-Term) - Background**

This antibody is expected to recognize all reported isoforms (NP\_058197.2; NP\_002526.2; NP\_001027903.1).

#### **OAS2 Antibody (internal region, near N-Term) - References**

Nucleotide oligomerization domain-2 interacts with 2'-5'-oligoadenylate synthetase type 2 and enhances RNase-L function in THP-1 cells. Dugan JW, Albor A, David L, Fowlkes J, Blackledge MT, Martin TM, Planck SR, Rosenzweig HL, Rosenbaum JT, Davey MP. Molecular immunology 2009 Dec 47 (2-3): 560-6. PMID: 19853919