

Aim2 (rodent) Antibody (internal region, near N-Term)
Peptide-affinity purified goat antibody
Catalog # AF3911a**Specification****Aim2 (rodent) Antibody (internal region, near N-Term) - Product Information**

Application	E
Primary Accession	O91VJ1
Other Accession	NP_001013801.2 , 383619 , 383619 (mouse) , 304987 (rat)
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	40155

Aim2 (rodent) Antibody (internal region, near N-Term) - Additional Information**Gene ID** 383619**Other Names**

Interferon-inducible protein AIM2, Interferon-inducible protein 210, Ifi-210, Interferon-inducible protein p210, Aim2, Gm1313, Ifi210

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

Aim2 (rodent) Antibody (internal region, near N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Aim2 (rodent) Antibody (internal region, near N-Term) - Protein Information**Name** Aim2 {ECO:0000303|PubMed:19158676, ECO:0000312|MGI:MGI:2686159}**Function**

Sensor component of the AIM2 inflammasome, which mediates inflammasome activation in response to the presence of double-stranded DNA (dsDNA) in the cytosol, leading to subsequent pyroptosis (PubMed: [19158679](http://www.uniprot.org/citations/19158679), PubMed: [19131592](http://www.uniprot.org/citations/19131592), PubMed: [20351692](http://www.uniprot.org/citations/20351692), PubMed: [19158675](http://www.uniprot.org/citations/19158675))

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[32350463](http://www.uniprot.org/citations/32350463)). Also acts as a mediator of pyroptosis, necroptosis and apoptosis (PANoptosis), an integral part of host defense against pathogens, in response to bacterial infection (PubMed:[34471287](http://www.uniprot.org/citations/34471287)). Can also trigger PYCARD/ASC-dependent, caspase-1-independent cell death that involves caspase-8 (CASP8) (PubMed:[22555457](http://www.uniprot.org/citations/22555457)).

Cellular Location

Cytoplasm. Inflammasome. Nucleus. Note=Activated inflammasomes can aggregate in the cytosol as speck-like particles (PubMed:19158679) Activated inflammasomes can also aggregate in the nucleus in response to DNA damage: AIM2 is recruited to double-strand DNA breaks and mediates activation of the AIM2 inflammasome (PubMed:27846608)

Tissue Location

Expressed in developing neurons (PubMed:27561456). Highly expressed in regulatory T-cells (Treg) (PubMed:33505023)

Aim2 (rodent) 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](#)

Aim2 (rodent) Antibody (internal region, near N-Term) - Images

Aim2 (rodent) Antibody (internal region, near N-Term) - References

Cytosolic DNA triggers mitochondrial apoptosis via DNA damage signaling proteins independently of AIM2 and RNA polymerase III. Wenzel M, Wunderlich M, Besch R, Poeck H, Willms S, Schwantes A, Kremer M, Sutter G, Endres S, Schmidt A, Rothenfusser S. J Immunol. 2012 Jan 1;188(1):394-403. PMID: 22140256