

CIAS1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant NLRP3.

Catalog # AT1536a

Specification

CIAS1 Antibody (monoclonal) (M01) - Product Information

Application	WB
Primary Accession	O96P20
Other Accession	NM_004895
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	118173

CIAS1 Antibody (monoclonal) (M01) - Additional Information

Gene ID 114548

Other Names

NACHT, LRR and PYD domains-containing protein 3, Angiotensin/vasopressin receptor AII/AVP-like, Caterpillar protein 11, CLR11, Cold autoinflammatory syndrome 1 protein, Cryopyrin, PYRIN-containing APAF1-like protein 1, NLRP3, C1orf7, CIAS1, NALP3, PYPAF1

Target/Specificity

NLRP3 (NP_004886, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

CIAS1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

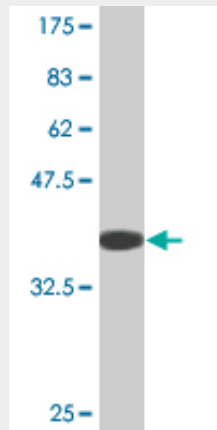
CIAS1 Antibody (monoclonal) (M01) - Protocols

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

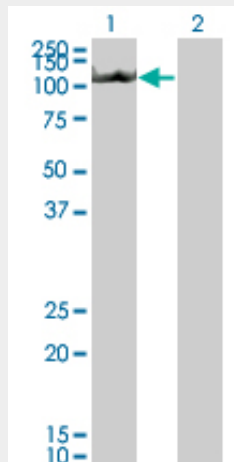
- [Western Blot](#)
- [Blocking Peptides](#)

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

CIAS1 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



Western Blot analysis of NLRP3 expression in transfected 293T cell line by NLRP3 monoclonal antibody (M01), clone 3B1.

Lane 1: NLRP3 transfected lysate (118.2 kDa).
Lane 2: Non-transfected lysate.

CIAS1 Antibody (monoclonal) (M01) - Background

This gene encodes a pyrin-like protein containing a pyrin domain, a nucleotide-binding site (NBS) domain, and a leucine-rich repeat (LRR) motif. This protein interacts with the apoptosis-associated speck-like protein PYCARD/ASC, which contains a caspase recruitment domain, and is a member of the NALP3 inflammasome complex. This complex functions as an upstream activator of NF-kappaB signaling, and it plays a role in the regulation of inflammation, the immune response, and apoptosis. Mutations in this gene are associated with familial cold autoinflammatory syndrome

(FCAS), Muckle-Wells syndrome (MWS), chronic infantile neurological cutaneous and articular (CINCA) syndrome, and neonatal-onset multisystem inflammatory disease (NOMID). Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. Alternative 5' UTR structures are suggested by available data; however, insufficient evidence is available to determine if all of the represented 5' UTR splice patterns are biologically valid.

CIAS1 Antibody (monoclonal) (M01) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. A 3'UTR SNP in NLRP3 gene is associated with susceptibility to HIV-1 infection. Pontillo A, et al. J Acquir Immune Defic Syndr, 2010 Jul 1. PMID 20502346. (1,3)-beta-glucans activate both dectin-1 and NLRP3 inflammasome in human macrophages. Kankkunen P, et al. J Immunol, 2010 Jun 1. PMID 20421639. Human NLRP3 inflammasome activation is Nox1-4 independent. van Bruggen R, et al. Blood, 2010 Jul 1. PMID 20407038. The genetics of NOD-like receptors in Crohn's disease. Cummings JR, et al. Tissue Antigens, 2010 Jul. PMID 20403135.