

CIAS1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant NLRP3. Catalog # AT1536a

Specification

CIAS1 Antibody (monoclonal) (M01) - Product Information

WB Application **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 All/AVP-like, Caterpiller 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. \sim 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

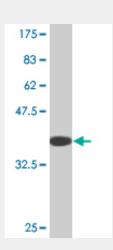
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

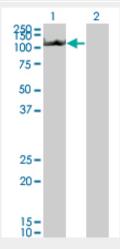


- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CIAS1 Antibody (monoclonal) (M01) - Images



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



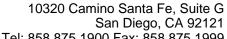
Western Blot analysis of NLRP3 expression in transfected 293T cell line by NLRP3 monoclonal antibody (M01), clone 3B1.

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





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(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 Thiazolinedinedione-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 IR, et al. Tissue Antigens, 2010 Jul. PMID 20403135.