

## Anti-CIAS1/NALP3/NLRP3 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9114-Fluoro488

### About NLRP3

NLRP3 (NLR FAMILY, PYRIN DOMAIN-CONTAINING 3), also known as CIAS1, CRYOPYRIN, NALP3 or PYPAF1, is a protein that in humans is encoded by the NLRP3 gene. It is mapped to 1q44. The encoded protein may play a role in the regulation of inflammation and apoptosis. Mutation of the NALP3 nucleotide-binding domain reduced ATP binding, CASP1 activation, IL1B production, cell death, macromolecular complex formation, self-association, and association with ASC. Consistent with an essential role for Nlrp3 inflammasomes in antifungal immunity, it has been showed that Nlrp3-deficient mice are hypersusceptible to *C. albicans* infection. Activation of the NLRP3 inflammasome in response to virus or to RNA was dependent upon lysosomal maturation and reactive oxygen species production in human cells. The NLRP3 inflammasome senses obesity-associated danger signals and contributes to obesity-induced inflammation and insulin resistance.

### Overview

Product Name	Anti-CIAS1/NALP3/NLRP3 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q96P20

### Technical Details

Immunogen	E.coli-derived human CIAS1 recombinant protein (Position: D21-K194). Human CIAS1 shares 77% amino acid (aa) sequence identity with mouse CIAS1.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm

	Emission Wavelength: 515-545 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

### 3 Publications Citing This Product

1. PubMed ID: 31156617, Wei Z,Wang J,Wang Y,Wang C,Liu X,Han Z,Fu Y,Yang Z.Effects of Neutrophil Extracellular Traps on Bovine Mammary Epithelial Cells in vitro.Front Immunol.2019 May 17;10:1003.doi:10.3389/fimmu.2019.01003.PMID:31156617;PMCID:PMC6533846.

2. PubMed ID: 24884473, Wang B, Yang G, Liang X, Zhu M, Du M. BMC Complement Altern Med. 2014 May 20;14:162. Doi: 10.1186/1472-6882-14-162. Grape Seed Extract Prevents Skeletal Muscle Wasting In Interleukin 10 Knockout Mice.

3. PubMed ID: 24775094, Xue Y, Wang H, Du M, Zhu Mj. J Nutr Biochem. 2014 Jul;25(7):758-64. Doi: 10.1016/J.jnutbio.2014.03.009. Epub 2014 Apr 1. Maternal Obesity Induces Gut Inflammation And Impairs Gut Epithelial Barrier Function In Nonobese Diabetic Mice.

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