

AG-20B-0014

15-Oct-2010

anti-NLRP3/NALP3, mAb (Cryo-2)

[NACHT-, LRR- and PYD-containing Protein 3; NLRP3; Cryopyrin; Cold Autoinflammatory Syndrome 1 Protein]

AG-20B-0014-C100	100 µg
Clone	Cryo-2
Source/Host	Purified from concentrated hybridoma tissue culture supernatant.
Isotype	Mouse IgG2b
Immunogen	Recombinant mouse NLRP3/NALP3 (pyrin domain/aa 1-93).

Handling / Storage

Shipping	BLUE ICE
Short Term Storage	+4°C
Long Term Storage	-20°C

After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

Use / Stability

Stable for at least 1 year after receipt when stored at -20°C.

MSDS available at www.adipogen.com or upon request.

Product Specifications

Specificity	Recognizes mouse and human NLRP3/NALP3.
Species Crossreactivity	Human / Mouse
Application	Western Blot (see online protocol): (1µg/ml) Immunocytochemistry: (see J. Virol. 85 , 13019 (2011) and Nat. Immunol. 13 , 255 (2012)) Immunoprecipitation: (in RIPA buffer, see Mol. Cell 49 , 331 (2012)) Immunohistochemistry: (1:200, for a protocol see Nature 493 , 67 (2012)) ChIP assay: 2µg/DNA of 10E6 cells (see Nat. Immunol. 16 , 859 (2015))
Purity	≥95% (SDS-PAGE)
Formulation	Liquid. In PBS containing 10% glycerol and 0.02% sodium azide.
Concentration	1mg/ml
Isotype Negative Control	Mouse IgG2b Isotype Control

Product Description

The inflammasome is a multiprotein complex that mediates the activation of caspase-1, which promotes, amongst others, the secretion of the proinflammatory cytokines interleukin (IL)-1β and IL-18. Members of the Nod-like receptor family, including NLRP3/NALP3, are critical components of the inflammasome that link danger-signals to caspase-1 activation. Defects in NLRP3 are the cause of familial cold autoinflammatory syndrome type 1 (FCAS1), Muckle-Wells syndrome (MWS) and of chronic infantile neurologic cutaneous and articular syndrome (CINCA).

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

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Product Specific References

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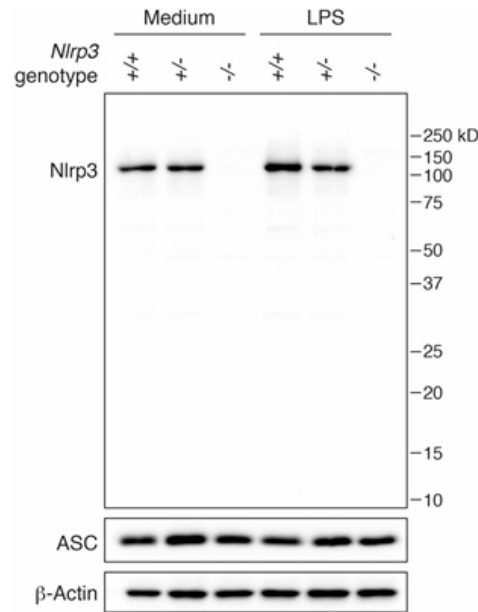


Figure 1: Mouse NLRP3 is detected in mouse macrophages using the monoclonal antibody to NLRP3 (Cryo-2) (Prod. No. AG-20B-0014). **Method:** Cell extracts from mouse macrophages (BMDMs) WT +/+ (lane 1), NLRP3+/- (lane 2) or NLRP3 -/- (lane 3), with or without treatment with LPS (50ng/ml) for 3h, were separated by SDS-PAGE under reducing conditions, transferred to nitrocellulose and incubated with the mAb to NLRP3 (Cryo-2) (1µg/ml). Proteins are visualized by a chemiluminescence detection system. *Picture courtesy of Dr. Olaf Gross, Munich University, Germany.*

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