

AG-20B-0044

03-Jan-2012

anti-Caspase-1 (p10) (mouse), mAb (Casper-2)

[Interleukin-1 β Convertase; IL-1BC; Interleukin-1 β -converting Enzyme; ICE]

AG-20B-0044-C100	100 μ g
Clone	Casper-2
Source/Host	Purified from concentrated hybridoma tissue culture supernatant.
Isotype	Mouse IgG2a
Immunogen	Recombinant mouse caspase-1.

Handling / Storage

Shipping	BLUE ICE
Short Term Storage	+4 $^{\circ}$ C
Long Term Storage	-20 $^{\circ}$ C

After opening, prepare aliquots and store at -20 $^{\circ}$ C. Avoid freeze/thaw cycles.

Use / Stability

Stable for at least 1 year after receipt when stored at -20 $^{\circ}$ C.

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

Product Specifications

Specificity	Recognizes endogenous full-length and activated (p10 fragment) mouse caspase-1.
Species Crossreactivity	Mouse
Application	Western Blot (see online protocol): (1 μ g/ml) (no need to precipitate the cell supernatant for the detection of caspase-1 (mouse) upon inflammasome activation)
Purity	\geq 95% (SDS-PAGE)
Formulation	Liquid. In PBS containing 10% glycerol and 0.02% sodium azide.
Concentration	1mg/ml
Isotype Negative Control	Mouse IgG2a Isotype Control

Product Description

Caspase-1 is the best-described inflammatory caspase. It processes the cytokines interleukin-1 β (IL-1 β) and IL-18 and induces pyroptotic cell death. Caspase-1 is activated by multiprotein complexes called inflammasomes in response to numerous stimuli that are detected through distinct inflammasomes. NLRC4 responds to cytosolic flagellin, murine NLRP1b responds to anthrax lethal toxin, AIM2 responds to cytosolic DNA and NLRP3 responds to a variety of agonists including crystals.

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.

North/South America:
Adipogen Corp.
9853 Pacific Heights Blvd., Suite L
San Diego, CA 92121-4721
USA
TEL (858) 457-8383
FAX (858) 457-8484
info-us@adipogen.com

Rest of World:
Adipogen AG
Schützenstrasse 12
4410 Liestal
Switzerland
TEL +41-61-926-60-40
FAX +41-61-926-60-49
info@adipogen.com

For Local Distributors please visit
www.adipogen.com

Product Specific References

1. Measuring the inflammasome: O. Gross; *Methods Mol. Biol.* **844**, 199 (2012)
2. XIAP Restricts TNF- and RIP3-Dependent Cell Death and Inflammasome Activation: M. Yabal, et al.; *Cell Rep.* **7**, 1796 (2014)
3. AMP-activated protein kinase suppresses urate crystal-induced inflammation and transduces colchicine effects in macrophages: Y. Wang, et al.; *Ann. Rheum. Dis.* **75**, 286 (2016)
4. Bile acids control inflammation and metabolic disorder through inhibition of NLRP3 inflammasome: C. Guo, et al.; *Immunity* **45**, 802 (2016)
5. IL-18 is critical for MAIT cell IFN- responses to *Francisella* 1 species *in vitro* but not *in vivo*: E. Jesteadt, et al.; *Infect. Immun.*, ahead of print (2018)
6. Interleukin-18 Is Critical for Mucosa-Associated Invariant T Cell Gamma Interferon Responses to *Francisella* Species *In Vitro* but Not *In Vivo*: E. Jesteadt, et al.; *Infect. Immun.* **86**, e00117 (2018)

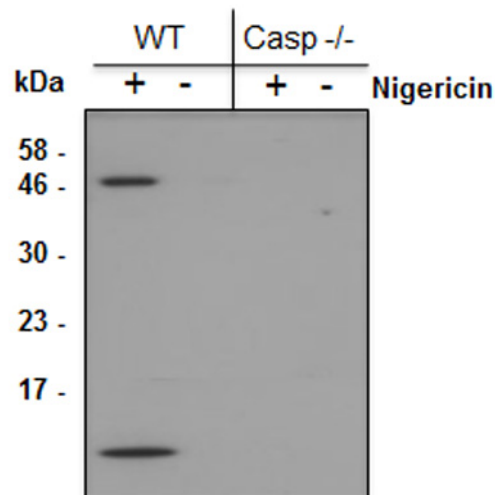


Figure 1: Mouse Caspase-1 (p10) is detected by immunoblotting using anti-Caspase-1 (p10) (mouse), mAb (Casper-2) (Prod. No AG-20B-0044). **Method:** Caspase-1 was analyzed by Western blot in supernatants of differentiated bone marrow-derived dendritic cells (BMDCs) from wild-type and caspase-1^{-/-} mice activated or not by 5 μM Nigericin for 30 min (Prod. No. AG-CN2-0020). Supernatants (30μl) were separated by SDS-PAGE under reducing conditions, transferred to nitrocellulose and incubated with anti-Caspase-1 (p10) (mouse), mAb (Casper-2) (1μg /ml). Proteins were visualized by a chemiluminescence detection system.

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.

North/South America:
Adipogen Corp.
 9853 Pacific Heights Blvd., Suite L
 San Diego, CA 92121-4721
 USA
 TEL (858) 457-8383
 FAX (858) 457-8484
 info-us@adipogen.com

Rest of World:
Adipogen AG
 Schützenstrasse 12
 4410 Liestal
 Switzerland
 TEL +41-61-926-60-40
 FAX +41-61-926-60-49
 info@adipogen.com

For Local Distributors please visit
www.adipogen.com