AdipoGen® LIFE SCIENCES

PRODUCT DATA SHEET

AG-20B-0064 13-Feb-2014

anti-IL-1α (p18) (mouse), mAb (Teo-1)
[Interleukin-1α]

AG-20B-0064-C100	100 µg

Clone	Teo-1
Source/Host	Purified from concentrated hybridoma tissue culture supernatant.
Isotype	Mouse IgG
Immunogen	Recombinant mouse mature IL-1α.

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 IL-1α p18 cleaved and full-length fragments.
Species Crossreactivity	Mouse
Application	**Western Blot:** (1µg/ml) **ELISA**
Purity	≥95% (SDS-PAGE)
Formulation	Liquid. In PBS containing 10% glycerol and 0.02% sodium azide.
Concentration	1mg/ml

Product Description

The most prominent members of the interleukin-1 (IL-1) superfamily are IL-1α and IL-1β. They lack a signal peptide and are secreted by an unconventional, endoplasmic reticulum-Golgi-independent mechanism. IL-1α was reported to be more widely and constitutively expressed and has intracellular functions, but also acts locally in a membrane-bound form by activating IL-1R1. Additionally, passive release of IL-1α upon cell death can trigger a sterile inflammatory response to dying cells. The cleavage of IL-1α is not mediated by caspase-1 and is not required for binding to IL-1R1. Recently it has been observed that all activators of the inflammasome NLRP3/NALP3 induce the simultaneous secretion of IL-1α and IL-1β. Although most activators fully rely on the inflammasome for IL-1α secretion, some induce the processing and secretion of IL-1α in an inflammasome-independent manner.

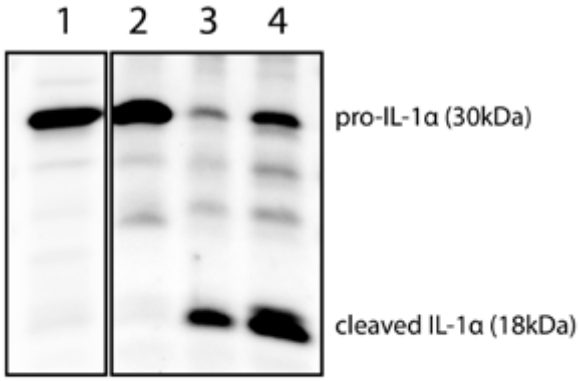
North/South America:
Adipogen Corp.
9853 Pacific Heights Blvd., Suite L
San Diego, CA 92121-4721
USA
TEL (858) 457-8383
FAX (858) 457-8484
info-us@adipogen.com

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

AdipoGen®
LIFE SCIENCES

PRODUCT DATA SHEET



1: Lysate of LPS-primed BMDCs
2: Supernatant of LPS +ATP treated BMDCs
3: Supernatant of LPS + Nigericin treated BMDCs
4: Supernatant of LPS + MSU treated BMDCs

Figure 1: Mouse IL-1α (full-length p30 and cleaved p18 fragments) are detected by immunoblotting using anti-IL-1α (p18) (mouse), mAb (Teo-1) (Prod. No AG-20B-0064).
Method: IL-1α was analyzed by Western blot in cell extracts of bone marrow-derived dendritic cells (BMDCs) treated by LPS and the several inflammasome activators as indicated in the figure. Cell extracts were separated by SDS-PAGE under reducing conditions, transferred to nitrocellulose and incubated with anti-IL-1α (p18) (mouse), mAb (Teo-1) (1µg /ml). After addition of an anti-mouse secondary antibody coupled to HRP, proteins were visualized by a chemiluminescence detection system.

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