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Caspase-1 Rabbit mAb

Catalog No.: A28207

Recombinant

Basic Information

Observed MW
20 kDa/35 kDa/48 kDa

Calculated MW
46 kDa

Category
Monoclonal Antibodies

Applications
WB, FC (intra), ELISA

Cross Reactivity
Mouse

Clone No.
ARC76410

Background

Enables cysteine-type endopeptidase activity. Involved in several processes, including AIM2 inflammasome complex assembly; positive regulation of canonical NF-kappaB signal transduction; and positive regulation of interleukin-1 beta production. Acts upstream of or within several processes, including membrane hyperpolarization; mitochondrial depolarization; and positive regulation of cytokine production. Located in extracellular region. Part of IPAF inflammasome complex. Is active in cytosol. Is expressed in several structures, including forelimb mesenchyme; knee joint; oocyte; small intestine; and telencephalon. Orthologous to human CASP1 (caspase 1).

Recommended Dilutions

WB	1:10000 - 1:22000
FC (intra)	1:1000 - 1:5000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
12362

Swiss-Prot
P29452

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
ICE; Il1bc

Contact

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Product Information

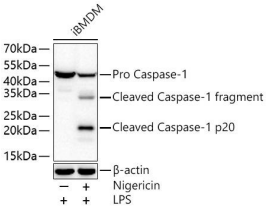
Source
Rabbit

Isotype
IgG

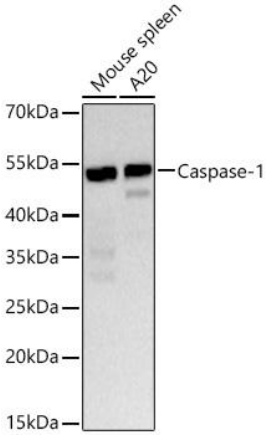
Purity
Affinity purification

Storage
Store at -20℃

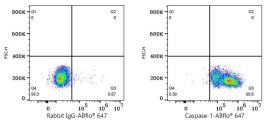
Validation Data



Western blot analysis of lysates from iBMDM cells using Caspase-1 Rabbit mAb (A28207) at 1:22000 dilution incubated overnight at 4℃. iBMDM cells were treated with Nigericin (15 μM) at 37℃ for 1 hour and LPS (1 μg/mL) at 37℃ for 4 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60 s.



Western blot analysis of various lysates using Caspase-1 Rabbit mAb (A28207) at 1: 22000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.



Flow cytometry: 1X10^6 C57BL/6 mouse splenocytes were intracellularly-stained with Rabbit IgG isotype control (AC042,2 μg/mL,left) or Caspase-1 Rabbit mAb (A28207,2 μg/mL,right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.

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