A21085

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Caspase-1 Rat mAb

Catalog No.: A21085 8 Publications

Basic Information

Observed MW
48 kDa

Calculated MW
46 kDa

Category
Monoclonal Antibody

Applications
WB,ELISA

Cross-Reactivity
Mouse

Clone number
ATC0001

Background

Enables cysteine-type endopeptidase activity. Involved in several processes, including positive regulation of I-kappaB kinase/NF-kappaB signaling; positive regulation of interleukin-1 beta production; and protein autoprocessing. Acts upstream of or within several processes, including membrane hyperpolarization; mitochondrial depolarization; and positive regulation of interleukin-1 alpha production. Located in extracellular region. Part of IPAF inflammasome complex. Is expressed in knee joint and metanephros. Orthologous to human CASP1 (caspase 1).

Recommended Dilutions

WB	1:1000 - 1:2000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
12362

Swiss Prot
P29452

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 206-220aa of mouse Caspase-1.

Synonyms
ICE; Il1bc

Contact

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Product Information

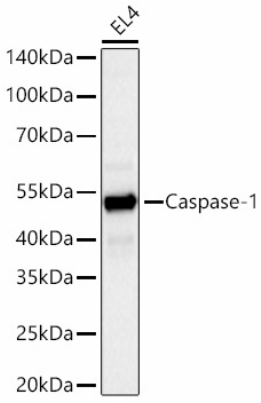
Source
Rat

Isotype
IgG

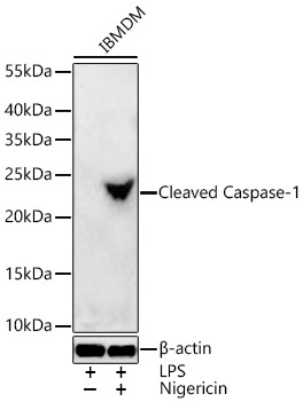
Purification
Affinity purification

Storage
Store at -20℃

Validation Data



Western blot analysis of lysates from EL4 cells using Caspase-1 Rat mAb (A21085) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rat IgG (H+L) (AS028) 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: 45s.



Western blot analysis of lysates from IBMDM cells using Caspase-1 Rat mAb (A21085) at 1:1000 dilution incubated at room temperature for 1.5 hours. IBMDM cells treated with LPS (100 ng/ml) for 4 hours and Nigericin (20uM) at 37℃ for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rat IgG (H+L) (AS028) 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: 90 s.