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10-1040: Monoclonal Antibody to Caspase-1 (Clone: ABM1B93)

Clone Name: Monoclonal ABM1B93

Application: WB

Reactivity: Mouse, Human

 Gene :
 CASP1

 Gene ID :
 834

 Uniprot ID :
 P29466

 Format :
 Purified

Alternative Name : CASP1,IL1BC,IL1BCE Isotype : Mouse IgG1 Kappa

Immunogen Information: A partial length recombinant Caspase-1 protein (amino acids 203-400) was used as the

immunogen for this antibody.

Description

Caspase-1 is a member of the cysteine-aspartic acid protease (caspase) family, which acts as a proinflammatory caspase whose catalytic activity is tightly regulated by signal-dependent autoactivation within inflammasomes. Caspase-1 is produced as a zymogen that is cleaved into 20 kDa (p20) and 10 kDa (p10) subunits that become part of the active enzyme. Active caspase-1 contains two heterodimers of p20 and p10. It interacts with another CARD domain containing protein called PYCARD (or ASC) and is involved in inflammasome formation and activation of inflammatory processes. Inflammasome-dependent caspase-1 activity results in a highly inflammatory form of cell death known as pyroptosis, primarily described in myeloid cells infected with intracellular bacterial pathogens. caspase-1 is implicated in promoting CD4 T-cell death and inflammation by HIV, two signature events that fuel HIV disease progression to AIDS.

Product Info

Amount : 25 μg / 100 μg

Purification: Protein G Chromatography

Content: 25 μg in 50 μl/100 μg in 200 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium

azide is highly toxic.

Storage condition:

Storage condition:

Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Western blot analysis: 2-4 µg/ml



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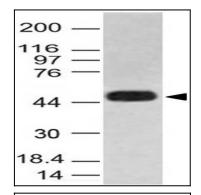


Figure-1: Western blot analysis of Caspase 1. Anti- Caspase 1 antibody (Clone: ABM1B93) was used at 2 μ g/ml on A431 lysate.

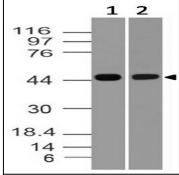


Figure-2: Western blot analysis of Caspase 1. Anti- Caspase 1 antibody (Clone: ABM1B93) was used at 2 μ g/ml on (1) Raw and (2) EL-4 lysates.