

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ABM1B93
<b>Application :</b>	WB
<b>Reactivity :</b>	Mouse,Human
<b>Gene :</b>	CASP1
<b>Gene ID :</b>	834
<b>Uniprot ID :</b>	P29466
<b>Format :</b>	Purified
<b>Alternative Name :</b>	CASP1,IL1BC,IL1BCE
<b>Isotype :</b>	Mouse IgG1 Kappa
<b>Immunogen Information :</b>	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

<b>Amount :</b>	25 µg / 100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	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.
<b>Storage condition :</b>	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

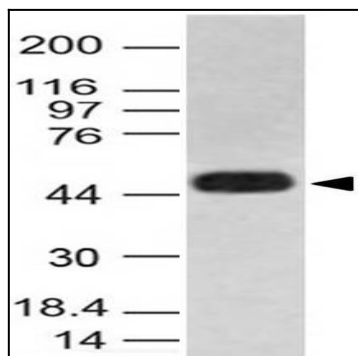


Figure-1: Western blot analysis of Caspase 1. Anti- Caspase 1 antibody (Clone: ABM1B93) was used at 2 µg/ml on A431 lysate.

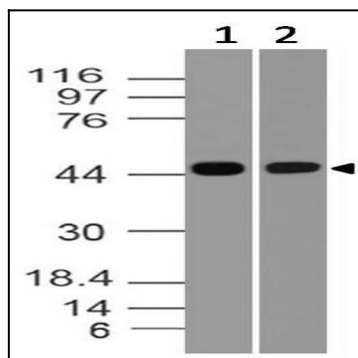


Figure-2: Western blot analysis of Caspase 1. Anti- Caspase 1 antibody (Clone: ABM1B93) was used at 2 µg/ml on (1) Raw and (2) EL-4 lysates.