

Cleaved-IL-1 β (Asp117) Antibody (Mouse Specific)

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Applications: W, IP	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit	UniProt ID: #P10749	Entrez-Gene Id: 16176
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Cleaved-IL-1 β (Asp117) Antibody (Mouse Specific) recognizes endogenous levels of mouse IL-1 β protein only when cleaved at Asp117.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp117 of mouse IL-1 β protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Interleukin-1 β (IL-1 β), one of the major caspase-1 targets, is a multifunctional cytokine that is involved in a host of immune and proinflammatory responses (1). It is produced primarily by activated monocytes and macrophages. It signals through various adaptor proteins and kinases that lead to activation of numerous downstream targets (2-6). Human IL-1 β is synthesized as a 31 kDa precursor. To gain activity, the precursor must be cleaved by caspase-1 between Asp116 and Ala117 to yield a 17 kDa mature form (7,8). Detection of the 17 kDa mature form of IL-1 β is a good indicator of caspase-1 activity.

Background References

1. Dinarello, C.A. (1998) *Int Rev Immunol* 16, 457-99.
2. Burns, K. et al. (1998) *J Biol Chem* 273, 12203-9.
3. Cao, Z. et al. (1996) *Nature* 383, 443-6.
4. Cao, Z. et al. (1996) *Science* 271, 1128-31.
5. Wesche, H. et al. (1997) *Immunity* 7, 837-47.
6. Ninomiya-Tsuji, J. et al. (1999) *Nature* 398, 252-6.
7. Thornberry, N.A. et al. (1992) *Nature* 356, 768-74.
8. Cerretti, D.P. et al. (1992) *Science* 256, 97-100.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

M: Mouse

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