

Store at
-20C
#85658**Cleaved-IL-1 β (Asp116) (D3A3Z) Rabbit mAb (Biotinylated)**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	17	Rabbit IgG	#P01584	3553

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C . *Do not aliquot the antibody.*

Specificity/Sensitivity

Cleaved-IL-1 β (Asp116) (D3A3Z) Rabbit mAb (Biotinylated) recognizes endogenous levels of mature IL-1 β protein only when cleaved at Asp116.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp116 of human IL-1 β protein.

Description

This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Cleaved-IL-1 β (Asp116) (D3A3Z) Rabbit mAb #83186.

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 $^{\circ}\text{C}$ with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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