Product datasheet

Anti-IL-1 beta/IL1B Antibody (Clone#OTI1A7)

Catalog Number: *M00101-4*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-IL-1 beta/IL1B Antibody (Clone#OTI1A7)
Gene Name	IL1B
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human
Tested Application	WB
Contents	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Immunogen	Full length human recombinant protein of human IL1B(NP_000567) produced in HEK293T cell.
Concentration	500 ug/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Observed MW	30.6 kDa
Dilution Ratios	Western blot (WB):1:4000

Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

Background Information

Interleukin-1β (IL-1β) is a potent stimulator of bone resorption whose gene is mapped to 2q14, and has been implicated in the pathogenesis of high bone turnover and osteoporosis. IL-1β, a prominent microglia-derived cytokine, caused oligodendrocyte death in coculture with astrocytes and microglia, but not in pure culture of oligodendrocytes alone. It also can cause nuclear export of a specific NCOR corepressor complex, resulting in derepression of a specific subset of nuclear factor-kappa-B (NFKB)-regulated genes. Furthermore, Microenvironmental IL-1β and, to a lesser extent, IL-1α are required for in vivo angiogenesis and invasiveness of different tumor cells. Additional, the cooperation of IL-1β and PDGFB induces contractile-to-synthetic phenotype modulation of human aortic smooth muscle cells in culture. Moreover, the association with disease may be explained by the biologic properties of IL-1β, which is an important proinflammatory cytokine and a powerful inhibitor of gastric acid secretion.

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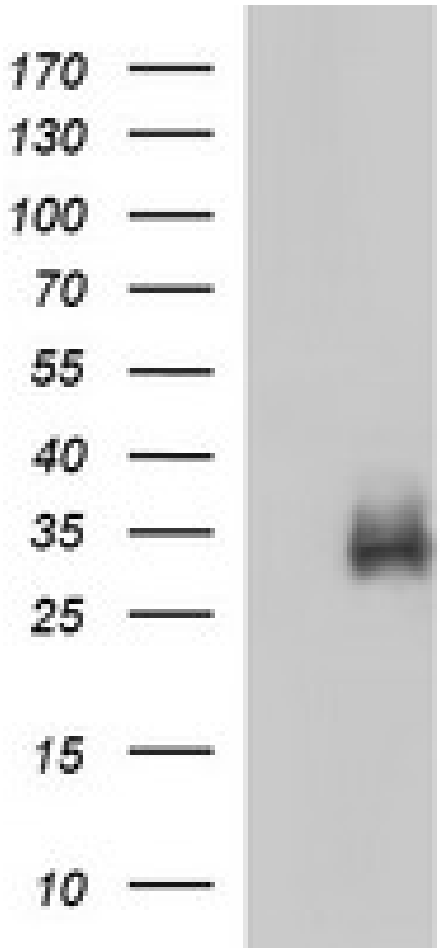
Selected Validation Data



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY IL1B (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-IL1B.