

## IL1B Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant IL1B. Catalog # AT2509a

#### Specification

## IL1B Antibody (monoclonal) (M01) - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW WB, IF, IP, E P01584 BC008678 Human mouse Monoclonal IgG2b Kappa 30748

## IL1B Antibody (monoclonal) (M01) - Additional Information

Gene ID 3553

Other Names Interleukin-1 beta, IL-1 beta, Catabolin, IL1B, IL1F2

**Target/Specificity** IL1B (AAH08678, 170 a.a. ~ 269 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution** WB~~1:500~1000 IF~~1:50~200 IP~~N/A E~~N/A

**Format** Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions** IL1B Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

### IL1B Antibody (monoclonal) (M01) - Protocols

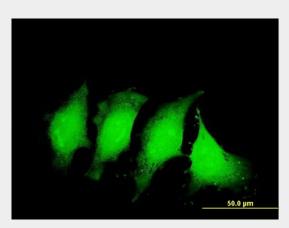
Provided below are standard protocols that you may find useful for product applications.

<u>Western Blot</u>

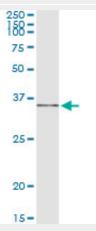


- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

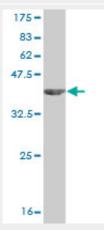
# IL1B Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to IL1B on HeLa cell . [antibody concentration 10  $\mathsf{ug}/\mathsf{ml}]$ 

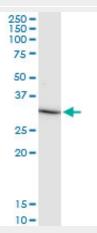


Immunoprecipitation of IL1B transfected lysate using anti-IL1B monoclonal antibody and Protein A Magnetic Bead (<u>U0007</u>), and immunoblotted with IL1B MaxPab rabbit polyclonal antibody.

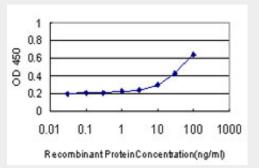




Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa).



IL1B monoclonal antibody (M01), clone 2A8. Western Blot analysis of IL1B expression in human liver.



Detection limit for recombinant GST tagged IL1B is approximately 10ng/ml as a capture antibody.

# IL1B Antibody (monoclonal) (M01) - Background

The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2.

# IL1B Antibody (monoclonal) (M01) - References

1.Upregulation of MMP-13 via Runx2 in the stromal cell of Giant Cell Tumor.Mak IW, Cowan RW, Popovic S, Colterjohn N, Singh G, Ghert M.Bone. 2009 Aug;45(2):377-86. Epub 2009 May 5.