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## IL1R1 Recombinant Monoclonal Antibody

Product Code	CSB-RA011621MA1HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P14778
Immunogen	Recombinant Human IL1R1 protein
Species Reactivity	Human, Mouse
Tested Applications	ELISA, FC; Recommended dilution: FC:1:20-1:500
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	Affinity-chromatography
Isotype	Mouse IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cardiovascular;Immunology;Stem cells
Gene Names	IL1R1
Clone No.	26F8

Image



Overlay Peak curve showing NIH/3T3 cells surfa ce stained with CSB-

RA011621MA1HU (red line) at 1:50. Then 10% n ormal goat serum was Incubated to block nonspecific protein-

protein interactions followed by the antibody (1µg /1\*10<sup>6</sup>cells) for 45 min at 4°C. The secondary ant ibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4 °C. Isotype control antibody (green line) was mo use IgG1 (1µg/1\*10<sup>6</sup>cells) used under the same conditions. Acquisition of >10,000 events was pe rformed.

## Description

The IL1R1 recombinant monoclonal antibody is generated through a multi-step process involving the acquisition of IL1R1 antibody genes, their introduction into suitable host cells, and the synthesis of IL1R1 antibodies using a cell-based expression and translation system. This approach not only enhances the purity and stability of the resulting IL1R1 recombinant monoclonal antibodies but also improves their affinity and specificity. The IL1R1 recombinant monoclonal antibody undergoes purification via affinity chromatography and is subjected to

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testing in both ELISA and FC assays. It is important to note that this antibody selectively recognizes the human IL1R1 protein.

IL1R1 is a receptor protein that plays a crucial role in mediating inflammatory responses and immune system activation. Its activation by IL-1 cytokines initiates a cascade of events that contribute to the body's defense against infections and the regulation of inflammation. Dysregulation of the IL-1 pathway can lead to chronic inflammatory diseases and autoimmunity.