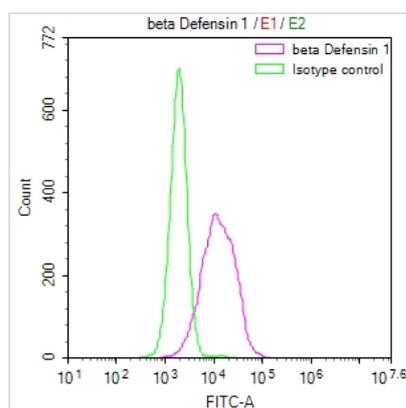




DEFB1 Recombinant Monoclonal Antibody

| | |
|----------------------------|---|
| Product Code | CSB-RA153094A0HU |
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | P60022 |
| Immunogen | A synthesized peptide derived from Human DEFB1 |
| Species Reactivity | Human |
| Tested Applications | ELISA, FC; Recommended dilution: FC:1:50-1:200 |
| Form | Liquid |
| Conjugate | Non-conjugated |
| Storage Buffer | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Purification Method | Affinity-chromatography |
| Isotype | Rabbit IgG |
| Clonality | Monoclonal |
| Product Type | Recombinant Antibody |
| Immunogen Species | Homo sapiens (Human) |
| Research Area | Microbiology |
| Gene Names | DEFB1 |
| Clone No. | 1F5 |

Image



Overlay Peak curve showing HepG2 cells surface stained with CSB-RA153094A0HU (red line) at 1:50. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody ($1\mu\text{g}/1*10^6$ cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?. Control antibody (green line) was rabbit IgG ($1\mu\text{g}/1*10^6$ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

Through in vitro expression systems, the DEFB1 recombinant monoclonal antibody is synthesized by cloning the DNA sequences of DEFB1 antibodies sourced from immunoreactive rabbits. The immunogen employed in this process is a synthesized peptide derived from the human DEFB1 protein. The genes encoding the DEFB1 antibodies are subsequently inserted into plasmid vectors, and these recombinant plasmid vectors are transfected into host cells for antibody expression. After expression, the DEFB1 recombinant monoclonal



antibody is subjected to affinity-chromatography purification and is extensively tested for functionality in ELISA and FC applications, demonstrating reactivity with the human DEFB1 protein during these assessments.

DEFB1 is an antimicrobial peptide that plays a critical role in the innate immune response by defending against a wide range of microbial pathogens. Its presence at mucosal surfaces and its broad-spectrum antimicrobial activity make DEFB1 an essential component of the body's defense against infections, particularly at sites exposed to the external environment.