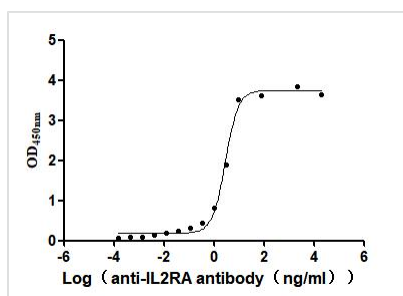




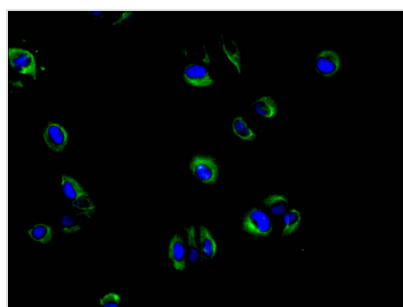
IL2RA Recombinant Monoclonal Antibody

Product Code	CSB-RA011649MA1HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P01589
Immunogen	Recombinant Human IL2RA protein
Species Reactivity	Human
Tested Applications	ELISA, IF; Recommended dilution: IF:1:20-1:200
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	hIgG1
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	IL2RA
Clone No.	5F10

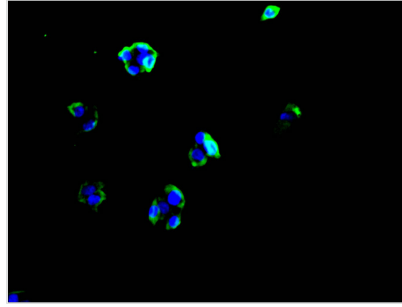
Image



The Binding Activity of Human IL2RA with Anti-IL2RA Recombinant Antibody
Activity: Measured by its binding ability in a functional ELISA. Immobilized Human IL2RA (CSB-MP011649HU3) at 2 µg/mL can bind Anti-IL2RA recombinant antibody, the EC₅₀ is 2.463-3.353 ng/mL.



Immunofluorescence staining of HeLa cell with CSB-RA011649MA1HU at 1:30, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-human IgG(H+L).



Immunofluorescence staining of HEPG2 cell with CSB-RA011649MA1HU at 1:30, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4C. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-human IgG(H+L).

Description

The production of the IL2RA recombinant monoclonal antibody involved the incorporation of IL2RA antibody genes into plasmid vectors. These engineered plasmid vectors were then introduced into suitable host cells using exogenous protein expression technology to facilitate antibody expression. Subsequently, the IL2RA recombinant monoclonal antibody underwent a purification process utilizing affinity chromatography. It was rigorously validated for its compatibility with ELISA. In a functional ELISA test, it was demonstrated that this IL2RA recombinant monoclonal antibody exhibited strong binding affinity to the human IL2RA protein (CSB-MP011649HU3) at a concentration of 2 $\mu\text{g/mL}$, with an EC_{50} falling within the range of 2.463 to 3.353 ng/mL.

IL2RA, also known as CD25, functions as a component of the IL-2 receptor complex on the surface of certain immune cells, particularly T cells. IL-2RA is a critical protein involved in regulating IL-2 signaling, T-cell activation, and immune responses.