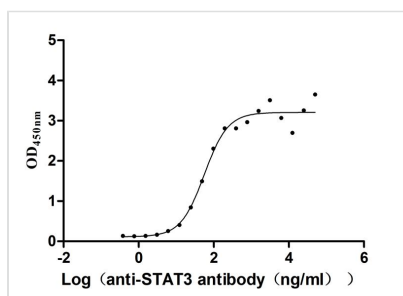




STAT3 Recombinant Monoclonal Antibody

Product Code	CSB-RA022812MA1HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P40763
Immunogen	Recombinant Human STAT3 protein
Species Reactivity	Human
Tested Applications	ELISA
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	Epigenetics and Nuclear Signaling;Cancer?Cardiovascular;Developmental biology;Signal transduction?Stem cells
Gene Names	STAT3
Clone No.	28H4

Image



The Binding Activity of Human STAT3 with Anti-STAT3 Recombinant Antibody
Activity: Measured by its binding ability in a functional ELISA. Immobilized Human STAT3 (CSB-BP022812HU(A4)j7) at 2 µg/mL can bind Anti-STAT3 recombinant antibody, the EC₅₀ is 41.31-75.59 ng/mL.

Description

The STAT3 recombinant monoclonal antibody was produced by first incorporating STAT3 antibody genes into plasmid vectors. These constructed plasmid vectors were then introduced into appropriate host cells to enable antibody expression using exogenous protein expression technology. Following this, the STAT3 recombinant monoclonal antibody underwent purification via affinity chromatography and was subsequently verified for its suitability in ELISA assays. In a functional ELISA test, it was determined that this STAT3 recombinant monoclonal antibody could efficiently bind to the human STAT3 protein (CSB-BP022812HU(A4)j7) at a concentration of 2 µg/mL, displaying an



EC₅₀ within the range of 41.31 to 75.59 ng/mL.

STAT3 is a multifunctional protein that plays a central role in cellular signaling, immune responses, inflammation, and various physiological and pathological processes. Its regulation of gene expression makes it a key player in coordinating cellular responses to extracellular signals and maintaining tissue homeostasis. Dysregulation of STAT3 signaling can have profound implications for health and disease.