



Mouse Interleukin 6,IL-6 ELISA KIT

Product Code	CSB-E04639m
Abbreviation	IL6
Protein Biological Process 1	Immunity
Uniprot No.	P08505
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	Il6
Tag Info	quantitative
Protein Description	Sandwich

Description

The mouse IL-6 ELISA kit (CSB-E04639m) is designed for the quantitative measurement of mouse IL-6 protein in serum, plasma, or cell culture supernates. It quantitates mouse IL-6 with 0.39 pg/ml sensitivity and shows excellent specificity for mouse IL-6. It uses the bi-antibody sandwich enzyme immunoassay technique. This assay employs a biotin-conjugated IL-6 antibody that recognizes the analyte bound by the immobilized IL-6 antibody, forming an antibody-analyte-antibody complex. The immune complex is further detected by avidin-conjugated HRP. The TMB solution is added into the wells and turns blue and finally turns yellow after the addition of the stop solution. Solution color develops in proportion to the amount of IL-6 in the sample. The O.D. value is measured using a microplate reader at 450 nm and is used to determine the concentration of the mouse IL-6 in the sample. This mouse IL-6 ELISA kit has been cited in up to 154 publications.

IL-6 is a pleiotropic cytokine generated in response to tissue injury and infections. IL-6 binds to IL-6R and then associates with gp130, which dimerizes and triggers multiple intracellular signaling pathways, including JAK/STAT1/3, YES/YAP, PI3K/AKT, and RAS/MAPK pathways that finally induce pro- or anti-inflammation. IL-6 is involved in immune responses and inflammation, hematopoiesis, bone metabolism, and embryonic development. Deregulation of IL-6 is linked to chronic inflammation and multifactorial auto-immune disorders. Targeting IL-6 shows potential in the diagnosis, management, and prevention of infectious diseases in the clinical.



Typical

