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Datasheet for ABIN2648764
IL-25 ELISA Kit

Overview

Quantity:	96 tests
Target:	IL-25 (IL25)
Reactivity:	Mouse
Application:	ELISA

Product Details

Sample Type:	Serum, Plasma, Cell Culture Cells
Detection Method:	Colorimetric
Sensitivity:	15 pg/ml

Characteristics: IL-25 (also known as IL-17E) is a member of the IL-17 family of proinflammatory cytokines, which includes IL-17A, IL-17B, IL-17C, IL-17F and IL-17A/F. IL-17E is found at low levels in various peripheral tissues. It is a proinflammatory cytokine that promotes airway eosinophilia in mice. IL-17E plays a role in Th2 type inflammatory diseases, such as asthma and atopic dermatitis. IL-25 induces elevated gene expression of IL-4, IL-5 and IL-13 in multiple tissues and results in T helper 2 (TH2)-type immune responses (increased serum IgE levels) and pathologic changes in the lungs and digestive tract with eosinophilic infiltrates, increased mucus production, epithelial cell hyperplasia and overall amplified allergic inflammation. IL-25 shares the receptor IL-17RB with IL-17B, although it binds with much higher affinity than IL-17B.

Target Details

Target:	IL-25 (IL25)
Alternative Name:	IL-25 (IL-17E) (IL25 Products)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Sample Volume: 100 μ L

Assay Time: 3.5 h

Plate: Pre-coated

Protocol: Mouse Interleukin-25(Interleukin-17E) (IL-25(IL-17E)) ELISA Assay Kit employs the quantitative sandwich enzyme immunoassay technique. A monoclonal antibody specific for IL-25(IL-17E) has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any IL-25(IL-17E) present is bound by the immobilized antibody. Following incubation unbound samples are removed during a wash step, and then a detection antibody specific for IL-25(IL-17E) is added to the wells and binds to the combination of capture antibody-IL-25(IL-17E) in sample. Following a wash to remove any unbound combination, and enzyme conjugate is added to the wells. Following incubation and wash steps a substrate is added. A colored product is formed in proportion to the amount of IL-25(IL-17E) present in the sample. The reaction is terminated by addition of acid and absorbance is measured at 450nm. A standard curve is prepared from seven IL-25(IL-17E) standard dilutions and IL-25(IL-17E) sample concentration determined.

Restrictions: For Research Use only

Handling

Storage: 4 °C
