Datasheet for ABIN5068352

Interleukin 17a ELISA Kit

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Overview

Quantity:	96 tests
Target:	Interleukin 17a (IL17A)
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Sample Type:	Cell Culture Lysate, Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	< 5 pg/mL
Characteristics:	Interleukin 17A (IL-17A) Human, ELISA Kit (Cytotoxic T-lymphocyte-associated Antigen 8, CTLA-8, CTLA8)
Components:	• IL-17A microtiter plate: 1x96 wells • Biotin conjugate (Anti-human IL-17A polyclonal antibody conjugated to Biotin): 1x7ml • Avidin conjugate (Avidin conjugated to HRP): 1x12ml • IL-17A standard (Recombinant human IL-17A) (2000pg/vial): 1x2 vials • Calibrator diluent 1: 1x25ml • Calibrator diluent 2: 1x25ml • Washer buffer (20X): 1x60ml • Substarte A (Buffered solution with 2): 1x10ml • Substrate B (Buffered solution with TMB): 1x10ml • Stop Solution (O4): 1x14ml

Target Details

Target:	Interleukin 17a (IL17A)
Alternative Name:	Interleukin 17A (IL-17A) (IL17A Products)
Background:	Interleukin -17A (IL-17A) is a secreted, homodimeric glycoprotein linked by disulfide link with a molecular mass of 35kD. The cytokine is the proto-type of a newly discovered pro-inflammatory cytokine family which consists of IL-17A, IL-17B, IL-17C, IL- 17D, IL-17E (IL-25) and IL-17F. All the IL-17s have similar structure with four highly conserved cysteine residues and same 3 dimensional structure, which distinguish this family from other cytokines.

Application Details

Plate:	Pre-coated
Protocol:	Principle: • This IL-17A enzyme linked immunosorbent assay (ELISA) applies a technique called a quantitative sandwich immunoassay. The microtiter plate provided in this kit has been pre-coated with a monoclonal antibody specific to IL-17A. Standards or samples are then added to the appropriate microtiter plate wells. A biotin-conjugated antibody preparation specific for IL-17A was added and incubated. IL-17A, if present, will bind and become immobilized by the antibody pre-coated on the wells. The microtiter plate wells are thoroughly washed to remove unbound IL-17A and other components of the sample. Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Avidin is a tetramer containing four identical subunits that each has a high affinity-binding site for biotin. The wells are thoroughly washed to remove all unbound HRP-conjugated Avidin, and a TMB (3,3& • 39,5, 5& • 39, tetramethyl-benzidine) substrate solution is added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain IL-17A, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in colour. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the colour change is measured spectrophotometrically at a wavelength of 450nm ± 2nm.
Restrictions:	For Research Use only

Handling

Storage:	-20 °C
Storage Comment:	-20°C