

Datasheet for ABIN2112000 **IL-5 ELISA Kit**

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Overview

Quantity:	96 tests
Target:	IL-5 (IL5)
Reactivity:	Mouse
Method Type:	Competition ELISA
Detection Range:	3.12-200 pg/mL
Minimum Detection Limit:	3.12 pg/mL
Application:	ELISA

Product Details

Brand:	BioAssay™
Detection Method:	Colorimetric
Sensitivity:	< 0.8 pg/mL
Components:	MOUSE IL-5 MICROTITER PLATE BIOTIN CONJUGATE AVIDIN CONJUGATE MOUSE IL-5 STANDARD CALIBRATOR DILUENT I CALIBRATOR DILUENT II WASH BUFFER (20X/96 wells, 30X/192 wells) TMB SUBSTRATE STOP SOLUTION

Target Details

Target:	IL-5 (IL5)
Alternative Name:	Interleukin-5 (IL5 Products)
Pathways:	JAK-STAT Signaling , Positive Regulation of Peptide Hormone Secretion , Production of Molecular Mediator of Immune Response , Feeding Behaviour

Application Details

Protocol:	Mouse IL-5 is a hemotapoeitic cytokine, mainly produced by T-helper 2 cells and mast cells. The cytokine is comprised of two identical 113 amino acid units linked by disulfide bond. The gene for mouse IL-5 is located at chromosome 11 in conjunction with genes for IL4 and other T-helper 2 cytokines such as IL-13, GM-CSF, IL-3. IL-5 regulates B cell proliferation, eosinophil maturation and activation. IL-5 receptor is a heterodimer with a cytokine specific alpha unit, and a signal transduction beta subunit that is identical to the beta subunit of receptors for IL-3 and GM-CSF. IL-5 receptor alpha (IL-5Ra) is expressed by eosinophils, B cells and basophils in member-bound form and soluble form. While the membrane bound form participates in the activation of eosinophils and B cells, the soluble form of IL-5Ra has an antagonist effect to IL-5. Increased IL-5 expression causes chronic IgE response and hypereosinophilic syndromes. Elevated IL-5 level is found in allergic diseases such as allergic rhinitis, asthma and allergic conjunctivitis. This ELISA kit provides a tool for studying IL-5 expression and regulation in animal model. This mouse IL-5 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 for mouse IL-5. When standards or samples are added to the appropriate microtiter plate wells, mouse IL-5 in the standards or samples will be immobilized by the precoated antibody during incubation. Then, a biotin-conjugated antibody preparation specific for mouse IL-5 is added to each well and incubated.
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Restrictions:	For Research Use only
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Handling

Storage:	4 °C/-20 °C
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