

Swine IL-4 ELISA Kit | IL-4 elisa kit

Swine IL-4 ELISA KIT

CATALOG #
AAA309921

REACTIVITY
Swine

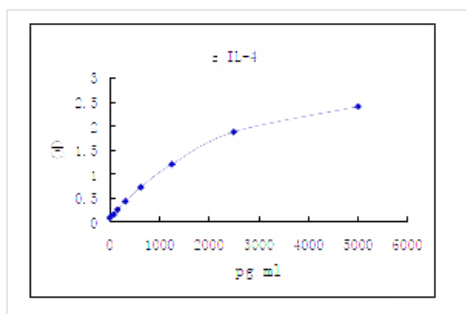
PRODUCT SYNONYMS

IL-4; Swine IL-4 ELISA KIT; Swine IL-4; IL-4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Swine
Specificity	This assay recognizes both natural and recombinant Swine IL-4. The factors listed below were prepared at 100ng/ml in Standard /sample Diluent and assayed for cross-reactivity and no significant cross-reactivity or interference was observed.
Assay Type	Quantitative Sandwich
Sensitivity	39pg/mL.
Preparation and Storage	Store at 4 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-4 elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. A monoclonal antibody specific for IL-4 has been pre-coated onto a microplate. Standard, control, or sample and the working solution of Biotin-Conjugate are pipetted into the wells. Following incubation and wash steps, any IL-4 present is bound by the immobilized antibody and the detection antibody specific for IL-4 is binds to the combination of capture antibody-IL-4 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-4 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-4 standard dilutions and IL-4 sample concentration determined!!Background/Introduction: Interleukin4 (IL-4), also known as B cell stimulatory factor1, is a monomeric, approximately 13-18 kDa Th2 cytokine that shows pleiotropic effects during immune responses (1-3).It is a glycosylated polypeptide that contains three intrachain disulfide bridges and adopts a bundled four alpha helix structure (4). Porcine IL-4 is synthesized with a 24 amino acid (aa) signal sequence. Mature porcine IL-4 shares 78%, 59%, 41%, and 41% aa sequence identity with bovine, human, mouse, and rat IL-4, respectively. Human IL-4 is active on porcine vascular endothelial cells (5). IL-4 exerts its effects through two receptor complexes (6, 7). The type I receptor, which is expressed on hematopoietic cells, is a heterodimer of the ligand binding IL-4 Ralpha and the common gamma chain (a shared subunit of the receptors for IL-2,-7,-9,-15, and-21). The type II receptor on nonhematopoietic cells consists of IL-4Ralpha and IL13Ralpha1. The type II receptor also transduces IL-13 mediated signals. IL4 is primarily expressed by Th2biased CD4+ T cells, mast cells, basophils, and eosinophils (1, 2). It promotes cell proliferation, survival, and immunoglobulin class switch to IgE in B cells, acquisition of the Th2 phenotype by naïve CD4+ T cells, priming and chemotaxis of mast cells, eosinophils, and basophils, and the proliferation and activation of epithelial cells (8, 11). IL-4 plays a dominant role in the development of allergic inflammation and asthma (10, 12).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21264449
NCBI GeneID	443327
UniProt Accession #	P30368; Q95MZ6
Molecular Weight	15,136 Da
NCBI Official Full Name	Interleukin-4
NCBI Official Symbol	IL4
NCBI Official Synonym Symbols	IL-4
NCBI Protein Information	interleukin-4
UniProt Protein Name	Interleukin-4
UniProt Gene Name	IL4
UniProt Synonym Gene Names	IL-4; IL-4; BSF-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.