

Cat Eotaxin 1 (CCL11) ELISA Kit

Catalog No: #EK11884



Package Size: #EK11884-1 48T #EK11884-2 96T

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Description

Product Name	Cat Eotaxin 1 (CCL11) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Cat (Felis catus, Feline)
Other Names	MGC22554; SCYA11; eosinophil chemotactic protein[eotaxin-1]small inducible cytokine A11[small inducible cytokine subfamily A (Cys-Cys); member 11 (eotaxin); ECF
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate CCL11 in samples. An antibody specific for CCL11 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CCL11 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CCL11 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CCL11 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:An eosinophil chemotactic factor (ECF) can be released from human polymorphonuclear neutrophils (PMN), rat mononuclear and rat mast cells by the calcium ionophore, during phagocytosis, by arachidonic acid and phospholipase A2. It has been suggested that stimuli such as the ionophore and the phagocytic event lead to phospholipid turnover with the generation of arachidonic acid which is subsequently transformed by a lipoxygenase-like enzyme into ECF. Chemokine (C-C motif) ligand 11 (CCL11) is a small cytokine belonging to the CC chemokine family that is also known as eotaxin-1. CCL11 selectively recruits eosinophils by inducing their chemotaxis, and therefore, is implicated in allergic responses.

Note: This product is for in vitro research use only