



User's Manual

Mouse AIM/CD5L/Spα ELISA kit



DEIABL520



96T



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

Creative Diagnostics

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PRODUCT INFORMATION

Intended Use

The Mouse AIM/CD5L/Sp α ELISA Kit is used for the quantitative measurement of free form mouse AIM/CD5L/Sp α in serum, plasma and other biological media.

General Description

AIM, also called CD5L/SP α , is a soluble 38 or 40-kDa glycoprotein expressed by macrophages present in lymphoid tissues (spleen, lymph node, thymus, and bone marrow), for which little functional and structural information is available. It belongs to the group B of the scavenger receptor cysteine-rich (SRCR) superfamily that includes the lymphocyte surface receptors CD5 and CD6 among others. AIM is able to bind to not only myelomonocytic and lymphoid cells, but also the surface of several Gram-positive and Gram-negative bacterial strains, which suggests that it may play an important role in the regulation of the innate and adaptive immune systems. It has been reported that AIM is present in IgM fraction, but not IgG or IgA fractions, from human serum. AIM is a circulating protein that may play a role in the homeostasis of IgM antibodies. In addition, it has been reported that AIM expression is induced in mouse macrophages in response to loading with highly oxidized low density lipoprotein, and that AIM is expressed in foam cells within atherosclerotic lesions. AIM may be feasible as a potential biomarker in the diagnosis and treatment of atopic dermatitis, although AIM was reported as candidate marker in asthma and liver cirrhosis.

Reagents And Materials Provided

Microplate

10X Wash Buffer

Dilution Buffer

Mouse AIM/CD5L/Sp Standard

HRP conjugated Detection Antibody

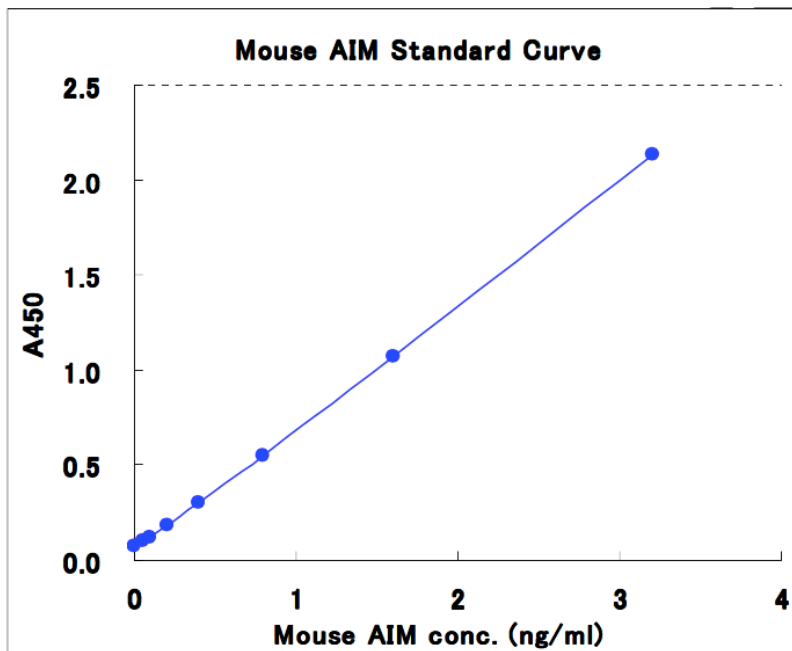
Substrate Reagent

Stop Solution

Storage

- Upon receipt store all components at 4°C.
- Don't expose reagents to excessive light.

Typical Standard Curve



Precision

Intra-assay (Within-Run, n=16) CV = 1.4-2.5 %

Inter-assay (Run-to-Run, n=5) CV = 5.7-7.6 %

Sensitivity

The limit of detection (defined as such a concentration of mouse AIM/CD5L/Sp α giving absorbance higher than mean absorbance of blank* plus three standard deviations of the absorbance of blank: A blank + 3SD blank) is better than 26.6 pg/ml of sample.