

Guinea pig Integrin alpha-M (ITGAM) ELISA Kit

Catalog No: #EK11545



Package Size: #EK11545-1 48T #EK11545-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Guinea pig Integrin alpha-M (ITGAM) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Guinea pig (Cavia)
Other Names	CD11B; CR3A; MAC-1; MAC1A; MGC117044; MO1A; SLEB6; antigen CD11b (p170) integrin alpha M macrophage antigen alpha polypeptide neutrophil adherence receptor alpha-M subunit
Accession No.	P11578
Uniprot	P11578
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:0.156-10 ng/mL

Sensitivity:0.057 ng/mL

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 ITGAM in samples. An antibody specific for ITGAM has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyITGAM present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ITGAM 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 ITGAM bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Integrin alpha M (ITGAM) is one protein subunit that forms the heterodimeric integrin alpha-M beta-2 (alpha M beta 2) molecule, also known as macrophage-1 antigen (Mac-1) or complement receptor 3 (CR3). ITGAM is also known as CR3A, and cluster of differentiation molecule 11B (CD11B). The second chain of alpha beta 2 is the common integrin beta 2 subunit known as CD18, and integrin alpha M beta 2 thus belongs to the beta 2 subfamily (or leukocyte) integrins alpha M beta 2 is expressed on the surface of many leukocytes involved in the innate immune system, including monocytes, granulocytes, macrophages, and natural killer cells.It mediates inflammation by regulating leukocyte adhesion and migration and has been implicated in several immune processes such as phagocytosis, cell-mediated cytotoxicity, chemotaxis and cellular activation.

Note: This product is for in vitro research use only