

Human Lymphocyte antigen 96 (LY96) ELISA Kit

Catalog No: #EK9999



Package Size: #EK9999-1 48T #EK9999-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Human Lymphocyte antigen 96 (LY96) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MD-2; MD2; MD-2 protein myeloid differentiation protein-2
Accession No.	P58754
Uniprot	P58754
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:0.062 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 LY96 in samples. An antibody specific for LY96 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any LY96 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LY96 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 LY96 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:LY96 is involved in binding lipopolysaccharide with TLR 4. It is also known as "MD2". The MD-2 protein appears to associate with toll-like receptor 4 on the cell surface and confers responsiveness to lipopolysaccharide (LPS), thus providing a link between the receptor and LPS signaling. MD2 did not interact with LY64, but it did appear on cells expressing Toll-like receptor-4 (TLR4). Toll-like receptors, which contain extracellular LRRs and have intracellular regions homologous to the intracellular signaling domain of the interleukin-1 receptor (IL1R), activate nuclear factor kappa-B (NFkB). TLR4 is involved in the response to lipopolysaccharide (LPS) from gram-negative bacteria. Functional analysis showed that expression of MD2 enhanced TLR4-dependent activation of NFkB.

Note: This product is for in vitro research use only