

Human Programmed cell death protein 6 (PDCD6) ELISA Kit

Catalog No: #EK8625

Orders: order@signalwayantibody.com

Package Size: #EK8625-1 48T #EK8625-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Programmed cell death protein 6 (PDCD6) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ALG-2; FLJ46208; MGC111017; MGC119050; MGC9123; PEF1B; apoptosis-linked gene 2 apoptosis-linked gene-2
Accession No.	O75340
Uniprot	O75340
GeneID	10016;
Storage	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. 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).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.118 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 PDCD6 in samples. An antibody specific for PDCD6 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PDCD6 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PDCD6 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 PDCD6 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:PDCD6 encodes a calcium-binding protein belonging to the penta-EF-hand protein family. Calcium binding is important for homodimerization and for conformational changes required for binding to other protein partners. This gene product participates in T cell receptor-, Fas-, and glucocorticoid-induced programmed cell death. In mice deficient for this gene product, however, apoptosis was not blocked suggesting this gene product is functionally redundant.ALG2 is expressed as a 22-kD protein before FAS activation and thereafter as a 19-kD protein, probably due to N-terminal cleavage. Confocal microscopy and immunoprecipitation analysis demonstrated that ALG2 translocates from the cytoplasmic membrane to the cytosol during FAS-induced apoptosis and then dissociates from FAS after activation.

Note: This product is for in vitro research use only