Human Apoptosis protease activating factor-1 (APAF1) ELISA Kit

Catalog No: #EK11887

Package Size: #EK11887-1 48T #EK11887-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Apoptosis protease activating factor-1 (APAF1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	APAF-1; CED4; DKFZp781B1145; apoptotic protease activating factor 1
Accession No.	O14727
Uniprot	O14727
GeneID	317;
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:0.156-10 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:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate APAF1 in samples. An antibody specific for APAF1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyAPAF1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for APAF1 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 APAF1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Apoptotic peptidase activating factor 1 is a proteincontains several copies of the WD40 repeat domain, a caspase recruitment domain (CARD), and an ATPase domain (NB-ARC). Upon binding cytochrome c and dATP, this protein forms an oligomeric apoptosome. The apoptosome binds and cleaves caspase 9 preproprotein, releasing its mature, activated form. The precise mechanism for this reaction is still debated though work published by Guy Salvesen suggests that the apoptosome may induce caspase 9 dimerization and subsequent autocatalysis. Activated caspase 9 stimulates the subsequent caspase cascade that commits the cell to apoptosis.Alternative splicing results in several transcript variants encoding different isoforms.

Note: This product is for in vitro research use only