

Pig Caspase-9 (CASP9) ELISA Kit

Catalog No: #EK11336



Package Size: #EK11336-1 48T #EK11336-2 96T

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Description

Product Name	Pig Caspase-9 (CASP9) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Pig (Sus scrofa; Porcine)
Other Names	RP11-265F14.3; APAF-3; APAF3; CASPASE-9c; ICE-LAP6; MCH6; ICE-like apoptotic protease 6 apoptotic protease MCH-6 apoptotic protease activating factor 3 caspase 9 caspase 9; apoptosis-related cystein
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:0.078 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 CASP9 in samples. An antibody specific for CASP9 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCASP9 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CASP9 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 CASP9 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The aspartic acid specific protease caspase-9 has been linked to the mitochondrial death pathway. It is activated during programmed cell death (apoptosis). Induction of stress signalling pathways JNK/SAPK causes release of cytochrome c from mitochondria and activation of apaf-1 (apoptosome), which in turn cleaves the pro-enzyme of caspase-9 into the active form.

Caspase-9 is a member of the cysteine-aspartic acid protease (caspase) family. This protein is processed by caspase APAF1; this step is thought to be one of the earliest in the caspase activation cascade. Alternative splicing results in two transcript variants which encode different isoforms.

Note: This product is for in vitro research use only