Rat Apoptosis inducing factor (AIF) ELISA Kit

Catalog No: #EK7315

Package Size: #EK7315-1 48T #EK7315-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Rat Apoptosis inducing factor (AIF) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	RP3-438D16.2; AIF; MGC111425; PDCD8; programmed cell death 8|programmed cell death 8 (apoptosis-inducing factor)|striatal apoptosis-inducing factor
Accession No.	Q9JM53
Uniprot	Q9JM53
GeneID	83533;
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:0.061 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 AIFM1 in samples. An antibody specific for AIFM1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyAIFM1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AIFM1 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 AIFM1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Apoptosis inducing factor is involved in initiating a caspase-independent pathway of apoptosis (positive intrinsic regulator of apoptosis) by causing DNA fragmentation and chromatin condensation. It also acts as an NADH oxidase. Another AIF function is to regulate the permeability of the mitochondrial membrane upon apoptosis.

Normally it is found behind the outer membrane of the mitochondria and is therefore secluded from the nucleus. However, when the mitochondria is damaged, it moves to the cytosol and to the nucleus.

Inactivation of AIF leads to resistance of embryonic stem cells to death following the withdrawal of growth factors indicating that it is involved in apoptosis.

Note: This product is for in vitro research use only