

Human Forkhead box O3 (FOXO3) ELISA Kit

Catalog No: #EK11255



Package Size: #EK11255-1 48T #EK11255-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Human Forkhead box O3 (FOXO3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AF6q21; DKFZp781A0677; FKHL1; FKHL1P2; FOXO2; FOXO3A; MGC12739; MGC31925; forkhead box O3A forkhead homolog (rhabdomyosarcoma) like 1 forkhead; Drosophila; homolog of; in rhabdomyosarcoma-like 1
Accession No.	O43524
Uniprot	O43524
GeneID	2309;
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:0.054 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 FOXO3 in samples. An antibody specific for FOXO3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyFOXO3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for FOXO3 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 FOXO3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**FOXO3 belongs to the O subclass of the forkhead family of transcription factors which are characterized by a distinct fork head DNA binding domain. There are three other FoxO family members in humans, FOXO1, FOXO4 and FOXO6. These transcription factors share the ability to be inhibited and translocated out of the nucleus (aside from FOXO6, which may be constitutively nuclear) on phosphorylation by proteins such as Akt/PKB in the PI3K signalling pathway. Other post-translational modifications including acetylation and methylation are seen and can result in increased or altered FOXO3a activity. This protein likely functions as a trigger for apoptosis through upregulation of genes necessary for cell death, such as Bim and PUMA , or downregulation of anti-apoptotic proteins such as FLIP.

Note: This product is for in vitro research use only