Human Wolframin (WFS1) ELISA Kit

Catalog No: #EK5834

Package Size: #EK5834-1 48T #EK5834-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Wolframin (WFS1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ51211; WFRS; WFS; WOLFRAMIN; wolframin
Accession No.	O76024
Uniprot	O76024
GeneID	7466;
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:0.103 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 WFS1 in samples. An antibody specific for WFS1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyWFS1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for WFS1 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 WFS1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Wolframin is a transmembrane protein.Wolframin appears to function as a cation-selective ion channel.Mutations in this gene are associated with an autosomal recessive syndrome characterized by insulin-dependent diabetes mellitus and bilateral progressive optic atrophy, usually presenting in childhood or early adult life. Diverse neurologic symptoms, including a predisposition to psychiatric illness, may also be associated with this disorder. A large number and variety of mutations in this gene, particularly in exon 8, can be associated with this syndrome. Mutations in this gene can also cause autosomal dominant deafness 6 (DFNA6).Highly expressed in heart followed by brain, placenta, lung and pancreas. Weakly expressed in liver, kidney and skeletal muscle. Also expressed in islet and beta-cell insulinoma cell line.

Note: This product is for in vitro research use only