Human [Protein ADP-ribosylarginine] hydrolase (ADPRH) ELISA Kit

Catalog No: #EK7755

Package Size: #EK7755-1 48T #EK7755-2 96T

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

Description

Product Name	Human [Protein ADP-ribosylarginine] hydrolase (ADPRH) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ARH1; ADP-ribose-L-arginine cleaving enzyme
Accession No.	P54922
Uniprot	P54922
GeneID	141;
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:0.059 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 ADPRH in samples. An antibody specific for ADPRH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADPRH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADPRH 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 ADPRH bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The deduced human ADPRH protein has 357 amino acids and an estimated molecular mass of 39.5 kD. Human ADPRH shows 83% amino acid identity to rat Adprh and 82% identity to mouse Adprh. The authors found that the mouse and rat Adprh sequences contain 5 conserved cysteine residues; the human sequence contains only 4 cysteines, with cys108 in rat corresponding to ser103 in human.

Expression of recombinant wildtype and mutant rat and human ADPRH proteins in E. coli and assessment of their DTT requirements for hydrolase activity demonstrated that cys108 is responsible for the DTT dependence of rat Adprh. Northern blot analysis detected a 4.1-kb ADPRH transcript in various human tissues, including fetal and adult brain.

Note: This product is for in vitro research use only