# Human Serine/threonine-protein kinase PAK 4 (PAK4) ELISA Kit

Catalog No: #EK8669

Package Size: #EK8669-1 48T #EK8669-2 96T

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

## Description

| | |
|---|---|
| Product Name | Human Serine/threonine-protein kinase PAK 4 (PAK4) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Human (Homo sapiens) |
| Other Names | p21(CDKN1A)-activated kinase 4\|p21-activated kinase 4\|protein kinase related to S. cerevisiae STE20; effector for Cdc42Hs |
| Accession No. | O96013 |
| Uniprot | O96013 |
| GeneID | 10298; |
| 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.<br>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:0.063 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 PAK4 in samples. An antibody specific for PAK4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPAK4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PAK4 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 PAK4 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities.

PAK4 interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.Highest expression in prostate, testis and colon.

Note: This product is for in vitro research use only