

Human Ras-related protein Rap-1b (RAP1B) ELISA Kit

Catalog No: #EK7804

Orders: order@signalwayantibody.com

Package Size: #EK7804-1 48T #EK7804-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Ras-related protein Rap-1b (RAP1B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DKFZp586H0723; K-REV; RAL1B; RAS-related protein RAP1B Ras family small GTP binding protein RAP1B small GTP binding protein
Accession No.	P61224
Uniprot	P61224
GeneID	5908;
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:23.44-1500 pg/mL

Sensitivity:5.86 pg/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 RAP1B in samples. An antibody specific for RAP1B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyRAP1B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RAP1B 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 RAP1B bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The deduced 184-amino acid protein is 95% identical to RAP1A. RAP1B shares several properties with the RAS protein, suggesting that it may bind GTP/GDP and have a membrane location.RAP1B is mainly located at the membrane, but translocates to the cytosol upon activation. In activated platelets, RAP1B interacts with the reorganized actin-based cytoskeleton. RAP1B is activated by phosphorylation, increased intracellular Ca(2+), and by agonist-induced stimulation of Gi, which results in the rapid binding of GTP to RAP1B. RAP1B is posttranslationally modified by the geranylgeranylation of cys181. Further modifications cause proteolytic removal of the last 3 C-terminal amino acids, followed by partial methylation of the remaining terminal cysteinyl carboxyl group.

Note: This product is for in vitro research use only