

Human Ras-related protein Rab-1A (RAB1A) ELISA Kit

Catalog No: #EK7823

Orders: order@signalwayantibody.com

Package Size: #EK7823-1 48T #EK7823-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Ras-related protein Rab-1A (RAB1A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DKFZp564B163; RAB1; YPT1; GTP binding protein Rab1a RAB1; member RAS oncogene family Rab GTPase YPT1 homolog
Accession No.	P62820
Uniprot	P62820
GeneID	5861;
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:0.067 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 RAB1A in samples. An antibody specific for RAB1A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyRAB1A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RAB1A 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 RAB1A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**RAB1A encodes a member of the Ras superfamily of GTPases. Members of the gene family cycle between inactive GDP-bound and active GTP-bound forms. This small GTPase controls vesicle traffic from the endoplasmic reticulum to the Golgi apparatus. Multiple alternatively spliced transcript variants have been identified for this gene which encode different protein isoforms. RAB1 recruited p115 to coat protein complex II (COPII) vesicles during budding from the endoplasmic reticulum (ER), where it interacted with a select set of COPII vesicle-associated SNAREs to form a cis-SNARE complex that promotes targeting to the Golgi apparatus.RAB1-regulated assembly of functional effector-SNARE complexes defines a conserved molecular mechanism to coordinate recognition between subcellular compartments.

Note: This product is for in vitro research use only