

Human Ras-related protein Rab-3B (RAB3B) ELISA Kit

Catalog No: #EK7820

Package Size: #EK7820-1 48T #EK7820-2 96T

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

Description

Product Name	Human Ras-related protein Rab-3B (RAB3B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	Brain antigen RAB3B
Accession No.	P20337
Uniprot	P20337
GeneID	5865;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:3.9 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 RAB3B in samples. An antibody specific for RAB3B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyRAB3B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RAB3B 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 RAB3B bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:The mammalian RAB proteins show striking similarities to the *S. cerevisiae* YPT1 and SEC4 proteins, Ras-related GTP-binding proteins involved in the regulation of secretion.RAB3B protein shares 78% identity with RAB3A. After endocytosis, the PI3R-dlgA complex traverses several endosomal compartments and is exocytosed at the apical plasma membrane Rab3b localized to vesicular structures containing Pigr in canine kidney cells and that GTP-bound Rab3b interacted directly with the cytoplasmic domain of Pigr. Binding of dlgA to Pigr dissociated Rab3b, but a constitutively active Rab3b mutant maintained its interaction with Pigr in dlgA-treated cells. Furthermore, GTP-locked Rab3b inhibited dlgA-stimulated transcytosis.

Note: This product is for in vitro research use only