Human Ras-Related Protein Rap-1b (RAP1B) ELISA Kit | RAP1B elisa kit

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CATALOG #	REACTIVITY
AAA331163	**Human**

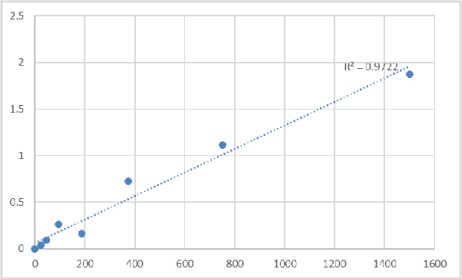
PRODUCT SYNONYMS

Ras-Related Protein Rap-1b (RAP1B); Human Ras-Related Protein Rap-1b (RAP1B) ELISA Kit; RAP1B; DKFZp586H0723; K-REV; RAL1B; RAS-related protein RAP1B; Ras family small GTP binding protein RAP1B; small GTP binding protein; RAP1B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Ras-related protein Rap-1b (RAP1B) ELISA Kit has high sensitivity and excellent specificity for detection of Human RAP1B. No significant cross-reactivity or interference between Human RAP1B and analogues was observed.
Sequence Length	184
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)
Fig.1. Human Ras-related protein Rap-1b (RAP1B) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for RAP1B elisa kit	Description: This Human Ras-related protein Rap-1b (RAP1B) ELISA Kit 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 any RAP1B 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. Background: 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47117723
NCBI GeneID	5908
UniProt Accession #	P61224
NCBI Official Full Name	Ras-related protein Rap-1b
NCBI Official Synonym Full Names	RAP1B, member of RAS oncogene family
NCBI Official Symbol	RAP1B
NCBI Official Synonym Symbols	K-REV; RAL1B
NCBI Protein Information	ras-related protein Rap-1b
UniProt Protein Name	Ras-related protein Rap-1b
UniProt Gene Name	**RAP1B**
UniProt Entry Name	RAP1B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/human-elisa-kits/ras-related-protein-rap-1b-rap1b/331163