

Human Serine/Threonine-Protein Kinase PAK 4 (PAK4) ELISA Kit | PAK4 elisa kit

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CATALOG #
AAA331480

REACTIVITY
Human

PRODUCT SYNONYMS

Serine/Threonine-Protein Kinase PAK 4 (PAK4); Human Serine/Threonine-Protein Kinase PAK 4 (PAK4) ELISA Kit; PAK4; p21(CDKN1A)-activated kinase 4; p21-activated kinase 4; protein kinase related to *S. cerevisiae* STE20; effector for Cdc42Hs; PAK4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Serine/threonine-protein kinase PAK 4 (PAK4) ELISA Kit has high sensitivity and excellent specificity for detection of Human PAK4. No significant cross-reactivity or interference between Human PAK4 and analogues was observed.
Sequence Length	591
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 Serine/threonine-protein kinase PAK 4 (PAK4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PAK4 elisa kit	Description: This Human Serine/threonine-protein kinase PAK 4 (PAK4) ELISA Kit 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 any PAK4 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. Background: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	62422554
NCBI GeneID	10298
NCBI Accession #	NP_001014831.1
NCBI GenBank Nucleotide #	NP_001014831.1
UniProt Accession #	O96013
NCBI Official Full Name	serine/threonine-protein kinase PAK 4 isoform 1
NCBI Official Synonym Full Names	p21 (RAC1) activated kinase 4
NCBI Official Symbol	PAK4
NCBI Protein Information	serine/threonine-protein kinase PAK 4
UniProt Protein Name	Serine/threonine-protein kinase PAK 4
UniProt Gene Name	PAK4
UniProt Synonym Gene Names	KIAA1142; PAK-4
UniProt Entry Name	PAK4_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.