

Mouse Serine/Threonine-Protein Kinase 11 (STK11) ELISA Kit | STK11 elisa kit

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CATALOG # AAA332280	REACTIVITY Mouse
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PRODUCT SYNONYMS

Serine/Threonine-Protein Kinase 11 (STK11); Mouse Serine/Threonine-Protein Kinase 11 (STK11) ELISA Kit; STK11; LKB1; PJS; polarization-related protein LKB1; serine/threonine protein kinase 11; STK11 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Serine/threonine-protein kinase 11 (STK11) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse STK11. No significant cross-reactivity or interference between Mouse STK11 and analogues was observed.
Sequence Length	412
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. Mouse Serine/threonine-protein kinase 11 (STK11) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for STK11 elisa kit	Description: This Mouse Serine/threonine-protein kinase 11 (STK11) ELISA Kit employs a two-site sandwich ELISA to quantitate STK11 in samples. An antibody specific for STK11 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any STK11 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STK11 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 STK11 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: LKB1 is a primary upstream kinase of adenine monophosphate-activated protein kinase (AMPK), a necessary element in cell metabolism that is required for maintaining energy homeostasis. It is now clear that LKB1 exerts its growth suppressing effects by activating a group of other ~14 kinases, comprising AMPK and AMPK-related kinases. Activation of AMPK by LKB1 suppresses growth and proliferation when energy and nutrient levels are scarce. Activation of AMPK-related kinases by LKB1 plays vital roles maintaining cell polarity thereby inhibiting inappropriate expansion of tumour cells. A picture from current research is emerging that loss of LKB1 leads to disorganization of cell polarity and facilitates tumour growth under energetically unfavorable conditions.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	687569592
NCBI GeneID	20869
NCBI Accession #	NP_001288782.1
NCBI GenBank Nucleotide #	NP_001288782.1
UniProt Accession #	Q9WTK7
NCBI Official Full Name	serine/threonine-protein kinase STK11 isoform S
NCBI Official Synonym Full Names	serine/threonine kinase 11
NCBI Official Symbol	Stk11
NCBI Official Synonym Symbols	Lkb1; Par-4; R75140; AA408040
NCBI Protein Information	serine/threonine-protein kinase STK11
UniProt Protein Name	Serine/threonine-protein kinase STK11
UniProt Gene Name	Stk11
UniProt Synonym Gene Names	LKB1; mLKB1

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/mouse-elisa-kits/serine-threonine-protein-kinase-11-stk11/332280>