

Human Peptidase Inhibitor 16 (PI16) ELISA Kit | PI16 elisa kit

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CATALOG #
AAA331396

REACTIVITY
Human

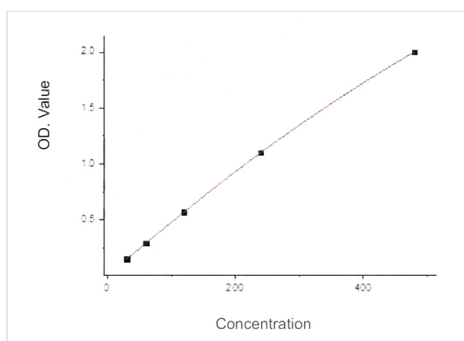
PRODUCT SYNONYMS

Peptidase Inhibitor 16 (PI16); Human Peptidase Inhibitor 16 (PI16) ELISA Kit; PI16; CRISP9; DKFZp586B1817; MGC45378; MSMBBP; PSPBP; PSP94-binding protein; microseminoprotein; beta-binding protein; protease inhibitor 16; PI16 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Peptidase inhibitor 16 (PI16) ELISA Kit has high sensitivity and excellent specificity for detection of Human PI16. No significant cross-reactivity or interference between Human PI16 and analogues was observed.
Sequence Length	463
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	30 pg/ml - 480 pg/ml
Sensitivity	< 1pg/ml
Intra-assay Precision	Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%)?9%.
Inter-assay Precision	Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%)?11%.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PI16 elisa kit	Background: PI16 is a putative serine protease inhibitor. PI16 may serve as a marker following prostatectomy for prostate cancer. This protein binds with high affinity to PSP94.PI16 expression is enhanced after serum stimulation of primary cardiomyocytes and is rapidly secreted into the conditioned medium of cardiomyocytes. PI16 is overexpressed in the hypertrophic and failing heart and inhibits cardiomyocyte growth. Suppression of endogenous PI16 expression in primary cardiomyocytes significantly enhances cardiomyocyte size. Transgenic mice overexpressing PI16 in a cardiomyocyte-specific manner show normal cardiac function but have smaller hearts with hypotrophic cardiomyocytes. Principle of the Assay: Human Peptidase inhibitor 16 (PI16) ELISA Kit employs a two-site sandwich ELISA to quantitate PI16 in samples. An antibody specific for PI16 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PI16 present is bound by the immobilized antibody. After removing any unbound substances, HRP-Conjugated Human PI16 detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of PI16 bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	312434019
NCBI GeneID	221476
NCBI Accession #	NP_001186088.1
NCBI GenBank Nucleotide #	NP_001186088.1
UniProt Accession #	Q6UXB8
NCBI Official Full Name	peptidase inhibitor 16
NCBI Official Synonym Full Names	peptidase inhibitor 16
NCBI Official Symbol	PI16
NCBI Official Synonym Symbols	CD364; PSPBP; CRISP9; MSMBBP
NCBI Protein Information	peptidase inhibitor 16
UniProt Protein Name	Peptidase inhibitor 16
UniProt Gene Name	PI16
UniProt Synonym Gene Names	CRISP9; PSPBP; PI-16; CRISP-9
UniProt Entry Name	PI16_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.