Human Symplekin (SYMPK) ELISA Kit | SYMPK elisa kit

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CATALOG #	REACTIVITY
AAA161588	**Human**

PRODUCT SYNONYMS

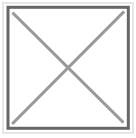
Symplekin (SYMPK); Human Symplekin (SYMPK) ELISA Kit; SYMPK ELISA kit (Human); SPK; SYM; SYMPK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Symplekin (SYMPK). No significant cross-reactivity or interference between Symplekin (SYMPK) and analogues was observed. Reactive with Human SYMPK/Symplekin
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Method	Colormetric
Featured Series	SE kit
Detection Range	0.156-10ng/mL
Sensitivity	0.055ng/mL
Sample Size	100uL
Assay Time	3h
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Symplekin (SYMPK) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Symplekin (SYMPK) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Symplekin (SYMPK). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Symplekin (SYMPK). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Symplekin (SYMPK), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Symplekin (SYMPK) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Research Area	Developmental science
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of 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.To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)
Typical Standard Curve for SYMPK ELISA (Sandwich

NCBI AND UNIPROT INFORMATION

NCBI GI #	124028529
NCBI GeneID	8189
NCBI Accession #	NP_004810.2
NCBI GenBank Nucleotide #	NM_004819.2
UniProt Accession #	Q92797; O00521; O00689; O00733; Q59GT5; Q8N2U5; O75402; Q4LE61; Q96B47
Molecular Weight	141,148 Da
NCBI Official Full Name	symplekin
NCBI Official Synonym Full Names	symplekin
NCBI Official Symbol	SYMPK
NCBI Official Synonym Symbols	SPK; SYM; FLJ27092
NCBI Protein Information	symplekin; OTTHUMP00000196465
UniProt Protein Name	Symplekin
UniProt Gene Name	**SYMPK**
UniProt Synonym Gene Names	SPK
UniProt Entry Name	SYMPK_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/symplekin-sympk/161588