

Human Pentraxin 3, Long (PTX3) ELISA Kit | PTX3 elisa kit

Human Pentraxin 3, Long (PTX3) Mini Samples ELISA Kit

CATALOG #
AAA161598

REACTIVITY
Human

PRODUCT SYNONYMS

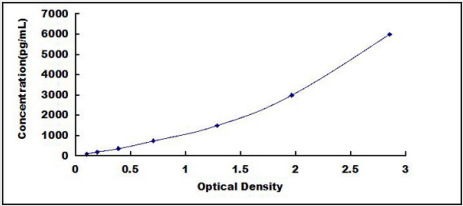
Pentraxin 3; Long (PTX3); Human Pentraxin 3; Long (PTX3) Mini Samples ELISA Kit; PTX3 Mini-sample ELISA kit (Human); TNFAIP5; TSG-14; Pentaxin-Related Gene; Rapidly Induced By IL-1 Beta; Tumor Necrosis Factor Alpha-Induced Protein 5; Tumor necrosis factor-inducible gene 14 protein; PTX3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Mini Samples Pentraxin 3, Long (PTX3). No significant cross-reactivity or interference between Mini Samples Pentraxin 3, Long (PTX3) and analogues was observed. Reactive with Human PTX3/Pentraxin 3, Long
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Featured Series	ME kit
Detection Range	93.75-6,000pg/mL
Sensitivity	34.51pg/mL
Sample Size	15-25uL
Assay Time	3h
Function	Detects protein (micro-volume samples 15-25 ul)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples Pentraxin 3, Long (PTX3) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples Pentraxin 3, Long (PTX3) 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 25ul standard or sample to each well. Incubate 1 hour at 37 degree C 3. Aspirate and add 25ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 25ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 25ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 20ul 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 Mini Samples Pentraxin 3, Long (PTX3). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mini Samples Pentraxin 3, Long (PTX3). 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 Mini Samples Pentraxin 3, Long (PTX3), 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 Mini Samples Pentraxin 3, Long (PTX3) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Tumor immunity
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 PTX3 ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	167900484
NCBI GeneID	5806
NCBI Accession #	NP_002843.2
NCBI GenBank Nucleotide #	NM_002852.3
UniProt Accession #	P26022; Q38M82; B2R6T6
Molecular Weight	41,976 Da
NCBI Official Full Name	pentraxin-related protein PTX3
NCBI Official Synonym Full Names	pentraxin 3, long
NCBI Official Symbol	PTX3
NCBI Official Synonym Symbols	TSG-14; TNFAIP5
NCBI Protein Information	pentraxin-related protein PTX3; pentraxin-3; TNF alpha-induced protein 5; pentaxin-related protein PTX3; tumor necrosis factor alpha-induced protein 5; tumor necrosis factor, alpha-induced protein 5; tumor necrosis factor-inducible protein TSG-14; tumor n
UniProt Protein Name	Pentraxin-related protein PTX3
UniProt Gene Name	PTX3
UniProt Synonym Gene Names	TNFAIP5; TSG14; TNF alpha-induced protein 5; TSG-14
UniProt Entry Name	PTX3_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/pentraxin-3-long-ptx3/161598>