

Human PTX3/Pentraxin 3 ELISA Kit | PTX3 elisa kit

Human PTX3/Pentraxin 3 Quick ELISA Kit

CATALOG #
AAA125880

REACTIVITY
Human

PRODUCT SYNONYMS

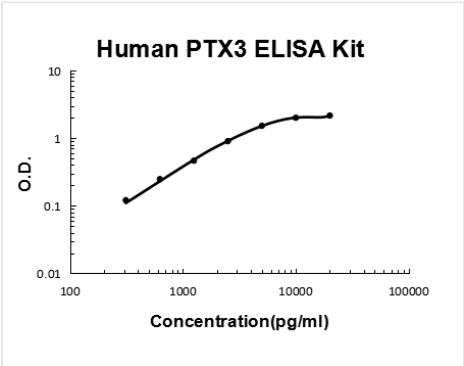
PTX3/Pentraxin 3; Human PTX3/Pentraxin 3 Quick ELISA Kit; PTX3; TNFAIP5; TSG14; Pentraxin-related protein PTX3; Pentaxin-related protein PTX3; Tumor necrosis factor alpha-induced protein 5; TNF alpha-induced protein 5; Tumor necrosis factor-inducible gene 14 protein; TSG-14; pentraxin 3; PTX3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human PTX3
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, serum, plasma (EDTA) and saliva
Detection Range	312pg/ml-20,000pg/ml
Sensitivity	<10pg/ml
Capture/Detection Antibodies	Capture antibody- monoclonal antibody from mouse Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 312 625 1250 2500 5000 10000 20000 O.D. 0.033 0.154 0.281 0.498 0.937 1.559 2.039 2.195
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 687 1807 9209 Standard deviation 37.09 110.22 635.42 CV(%) 5.4% 6.1% 6.9
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 814 1923 9534 Standard deviation 56.16 138.45 762.72 CV(%) 6.9% 7.2% 8.0%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 687 618 703 627 658 36.19 5.5% Sample 2: 1807 1579 1636 1784 1701 81.64 4.8% Sample 3: 9209 8917 8805 8754 8921 330.07 3.7% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: NS0; Immunogen sequence: E18-S381
Anticoagulant	EDTA
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Human PTX3 with <10pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.

Principle	Human PTX3 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human PTX3 with a 96-well strip plate that is pre-coated with mouse monoclonal antibody specific for PTX3. The detection antibody is a HRP linked goat polyclonal antibody specific for PTX3. The kit contains recombinant Human PTX3 with immunogen: Expression system for standard: NS0; Immunogen sequence: E18-S381. The kit is analytically validated with ready to use reagents. To measure Human PTX3, add standards and samples to the wells, then add HRP linked detection antibody. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human PTX3 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human PTX3 in the sample.
Assay Procedure Step 1	20000pg/ml, 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312.5pg/ml
TMB Incubation Time	15
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for PTX3 elisa kit	PTX3(Pentraxin 3) is a member of the pentraxin superfamily. This super family characterized by cyclic multimeric structure. The PTX3 gene is mapped to 3q25. 32. The predicted 381-amino acid PTX3 protein has homology to the pentraxin protein family. Significant levels of PTX3 were detected in plasma of neutropenic patients with systemic A. PTX3 is effective in preventing CMV infection and reactivation, as well as subsequent Aspergillus infection. PTX3 activates the classical pathway of complementactivation and facilitates pathogen recognition by macrophages and DCs.
Product Categories/Family for PTX3 elisa kit	ELISA kits

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/ptx3-pentraxin-3/125880>