

Human PTX 3/TSG-14 Antibody Pair Set

Catalog No.	E-KAB-0172	Applications	ELISA
Synonyms	PTX3, TNFAIP5, TSG-14, Pentraxin 3, long, TNF-inducible gene 14 protein		

Kit components & Storage

Title	Specifications	Storage
Human PTX 3/TSG-14 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human PTX 3/TSG-14 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

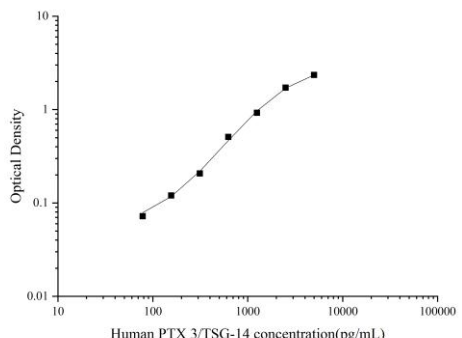
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0172)	
		Human PTX 3/TSG-14 Capture Antibody	Human PTX 3/TSG-14 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human PTX 3/TSG-14 protein	Recombinant Human PTX 3/TSG-14 protein
	Swissprot	P26022	
Product details	Reactivity	Human	Human
	Host	Mouse	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Antigen Affinity
	Specificity	Detects Human PTX 3/TSG-14 in ELISAs.	

Applications

Human PTX 3/TSG-14 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human PTX 3/TSG-14 Capture Antibody	 <p>The graph is a log-log plot. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The x-axis is labeled 'Human PTX 3/TSG-14 concentration(pg/mL)' and ranges from 10 to 100000. The data points form a nearly straight line with a positive slope, indicating a power-law relationship between concentration and optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human PTX 3/TSG-14 concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>100</td><td>0.08</td></tr> <tr><td>200</td><td>0.12</td></tr> <tr><td>500</td><td>0.25</td></tr> <tr><td>1000</td><td>0.4</td></tr> <tr><td>2000</td><td>0.6</td></tr> <tr><td>5000</td><td>1.2</td></tr> <tr><td>10000</td><td>1.8</td></tr> </tbody> </table>	Human PTX 3/TSG-14 concentration (pg/mL)	Optical Density	100	0.08	200	0.12	500	0.25	1000	0.4	2000	0.6	5000	1.2	10000	1.8
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ELISA Detection	1:1000-1:10000	Human PTX 3/TSG-14 Detection Antibody (Biotin)																	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

Ptx3, also known as tumor necrosis factor-stimulated gene sequence-14 (TSG14), is a secreted pattern-recognition receptor that has a non-redundant role in resistance to selected microbial agents. Ptx3 belongs to the family of “long pentraxins”, which have C-terminal pentraxin domains and novel amino-terminal domains. Ptx3 binds selected pathogens, including *Aspergillus fumigatus*, *Pseudomonas aeruginosa* and *Salmonella typhimurium*. It is synthesized in IgA glomerulonephritis and activates mesangial cells.