

Rat PTX-3/TSG-14 Antibody Pair Set

Catalog No.	E-KAB-0645	Applications	ELISA
Synonyms	PTX3;TNFAIP5;TSG-14;Pentraxin 3;long;TNF-inducible gene 14 protein		

Kit components & Storage

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

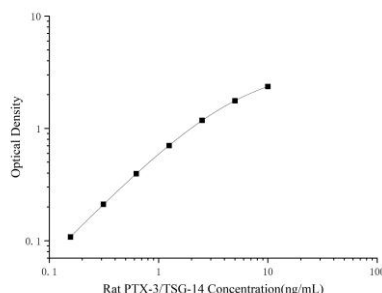
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0645)	
		Rat PTX-3/TSG-14 Capture Antibody	Rat PTX-3/TSG-14 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat PTX-3/TSG-14 protien	Recombinant Rat PTX-3/TSG-14 protien
	Swissprot	D3ZT94	
Product details	Reactivity	Rat	Rat
	Host	Rabbit	Rabbit
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Rat PTX-3/TSG-14 in ELISAs.	

Applications

Rat PTX-3/TSG-14 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																				
ELISA Capture	0.5-4 µg/mL	Rat PTX-3/TSG-14 Capture Antibody	 <p>The graph is a standard curve for the ELISA assay. The x-axis represents the concentration of Rat PTX-3/TSG-14 in ng/mL, ranging from 0.1 to 100 on a logarithmic scale. The y-axis represents Optical Density, ranging from 0.1 to 10 on a logarithmic scale. The data points show a clear upward trend, indicating that as the concentration of the antigen increases, the optical density also increases. The curve is smooth and follows a typical sigmoidal shape on this log-log plot.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Rat PTX-3/TSG-14 Concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>0.1</td> <td>0.1</td> </tr> <tr> <td>0.2</td> <td>0.2</td> </tr> <tr> <td>0.5</td> <td>0.4</td> </tr> <tr> <td>1</td> <td>0.7</td> </tr> <tr> <td>2</td> <td>1.2</td> </tr> <tr> <td>5</td> <td>2.0</td> </tr> <tr> <td>10</td> <td>3.0</td> </tr> <tr> <td>20</td> <td>4.5</td> </tr> <tr> <td>50</td> <td>7.0</td> </tr> </tbody> </table>	Rat PTX-3/TSG-14 Concentration (ng/mL)	Optical Density	0.1	0.1	0.2	0.2	0.5	0.4	1	0.7	2	1.2	5	2.0	10	3.0	20	4.5	50	7.0
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ELISA Detection	1:1000-1:10000	Rat 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.