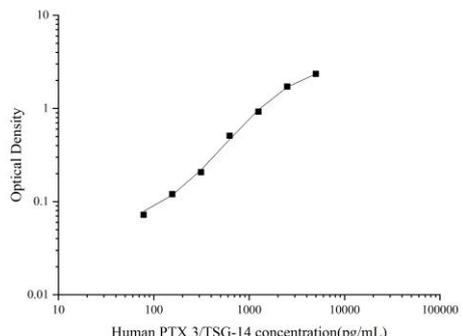


Applications

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 x-axis is labeled 'Human PTX 3/TSG-14 concentration(pg/mL)' and ranges from 10 to 100,000. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The data points form a smooth, upward-sloping curve, indicating a positive correlation 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>0.45</td> </tr> <tr> <td>2000</td> <td>0.8</td> </tr> <tr> <td>5000</td> <td>1.5</td> </tr> <tr> <td>10000</td> <td>2.5</td> </tr> </tbody> </table> | Human PTX 3/TSG-14 concentration (pg/mL) | Optical Density | 100 | 0.08 | 200 | 0.12 | 500 | 0.25 | 1000 | 0.45 | 2000 | 0.8 | 5000 | 1.5 | 10000 | 2.5 |
| Human PTX 3/TSG-14 concentration (pg/mL) | Optical Density | | | | | | | | | | | | | | | | | | |
| 100 | 0.08 | | | | | | | | | | | | | | | | | | |
| 200 | 0.12 | | | | | | | | | | | | | | | | | | |
| 500 | 0.25 | | | | | | | | | | | | | | | | | | |
| 1000 | 0.45 | | | | | | | | | | | | | | | | | | |
| 2000 | 0.8 | | | | | | | | | | | | | | | | | | |
| 5000 | 1.5 | | | | | | | | | | | | | | | | | | |
| 10000 | 2.5 | | | | | | | | | | | | | | | | | | |
| 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.

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