

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℃ for one year. Avoid freeze / thaw cycles. |
| Human PTX 3/TSG-14 Detection Antibody (Biotin) | 1 vial, 50 µL | Store at -20℃ for one year. Avoid freeze / thaw cycles. |

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

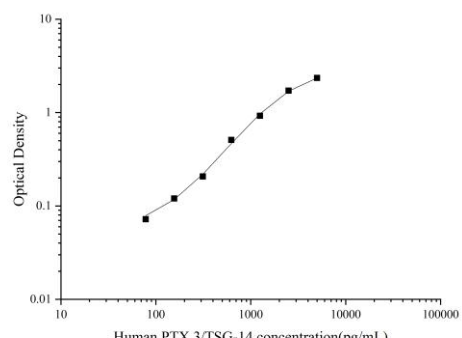
Product Information

| 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. | |

For Research Use Only

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 |  <table><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>0.50</td></tr><tr><td>2000</td><td>1.00</td></tr><tr><td>5000</td><td>2.50</td></tr><tr><td>10000</td><td>5.00</td></tr></tbody></table> | Human PTX 3/TSG-14 concentration (pg/mL) | Optical Density | 100 | 0.08 | 200 | 0.12 | 500 | 0.25 | 1000 | 0.50 | 2000 | 1.00 | 5000 | 2.50 | 10000 | 5.00 |
| Human PTX 3/TSG-14 concentration (pg/mL) | Optical Density | | | | | | | | | | | | | | | | | | |
| 100 | 0.08 | | | | | | | | | | | | | | | | | | |
| 200 | 0.12 | | | | | | | | | | | | | | | | | | |
| 500 | 0.25 | | | | | | | | | | | | | | | | | | |
| 1000 | 0.50 | | | | | | | | | | | | | | | | | | |
| 2000 | 1.00 | | | | | | | | | | | | | | | | | | |
| 5000 | 2.50 | | | | | | | | | | | | | | | | | | |
| 10000 | 5.00 | | | | | | | | | | | | | | | | | | |
| 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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