

## DESCRIPTION

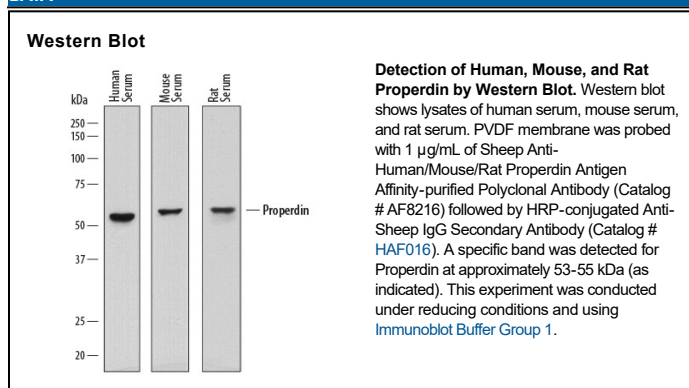
|                           |                                                                                                                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                               |
| <b>Specificity</b>        | Detects human, mouse, and rat Properdin in direct ELISAs and Western blots.                                                                                                                                   |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                          |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                     |
| <b>Immunogen</b>          | Human embryonic kidney cell line HEK293-derived human Properdin<br>Asp28-Leu469<br>Accession # P27918                                                                                                         |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                     | <b>Recommended Concentration</b> | <b>Sample</b> |
|---------------------|----------------------------------|---------------|
| <b>Western Blot</b> | 1 µg/mL                          | See Below     |

## DATA



## PREPARATION AND STORAGE

|                                |                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution</b>          | Reconstitute at 0.2 mg/mL in sterile PBS.                                                                                                                                                                                                                                                                                                          |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C                                                                                                                 |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

## BACKGROUND

Human Properdin, also known as Complement factor P (CFP), is a 53 kDa secreted glycoprotein that exists in plasma as dimers, trimers or tetramers. It is a positive regulator of the alternate pathway of complement. Properdin binds to and stabilizes the C3- and C5-convertase enzyme complexes and is thought to connect humoral and cellular immunity. Properdin released from activated neutrophils may play a major role in pattern recognition, whereas plasma properdin may primarily stabilize convertase. Properdin deficiency results in higher susceptibility to bacterial infections. Full-length human Properdin shares 77 % sequence identity with mouse Properdin.