Product Data Sheet  
**Strep-Tag Polyclonal Antibody**  
Catalog Number: ORF.STREPPAB-50

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| **Product Details** | |
| **Product Name** | Step-Tag Polyclonal Antibody |
| **Catalog Number** | ORF.STREPPAB-50 |
| **Size** | 50 μL |
| **Concentration** | 1.1 mg/mL |
| **Clonality** | Polyclonal |
| **Source** | Rabbit |
| **Isotype** | IgG |
| **Purification** | Antigen affinity purification |

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| **Product Description** | | **Product Image** |
| Streptavidin is a tetrameric protein derived from Streptomyces avidinii with an exceptionally high affinity for biotin (Kd ≈ 10⁻¹⁴ mol/L). This strong and specific interaction forms the basis for a wide range of biochemical and diagnostic applications, enabling the detection, purification, and immobilization of biotinylated molecules.  The Strep-tag system leverages this binding specificity by incorporating a short peptide tag into recombinant proteins, allowing for efficient purification and detection through streptavidin- or Strep-Tactin–based methods.  This polyclonal antibody specifically recognizes the Strep-tag epitope and is optimized for Western blotting, providing sensitive and reliable detection of Strep-tagged proteins in research workflows. | |  |
| **Product Specifications and Product Specific Information** | | |
| **Applications** | WB: 1:2000 – 1:10000 | |
| **Reactivity** | ALL | |
| **Specificity** | Recognizes Strep tag in fusion proteins | |
| **Immunogen** | A synthetic peptide GASWSHPQFEKG conjugated to KLH | |
| **Description** | The original Strep-tag (AWRHPQFGG) was a nine amino acid peptide with high specificity and affinity towards streptavidin. | |
| **Uniprot** | N/A | |
| **BiowMW** | N/A | |
| **Buffer** | PBS, 50% glycerol, 1 mg/mL BSA, 1% Procolin300 | |

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| **Storage and Stability** | | |
|  | **Temperature** | **Storage Time** |
| **Short Term** | 4°C | 1 month |
| **Long Term** | -20°C | 12 months |
| **Avoid repeated freeze-thaw cycles.** | | |

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| **Product Data** |
| Strep-tag Polyclonal Antibody at 1:10000 dilution  Line a: Strep-tagged fusion protein at 100 ng |