

## DESCRIPTION

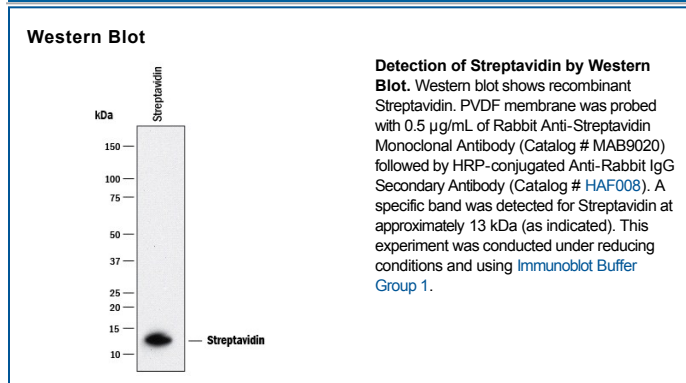
<b>Specificity</b>	Detects Streptavidin in Western blot.
<b>Source</b>	Recombinant Monoclonal Rabbit IgG Clone # 1220C
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	Purified streptavidin from <i>Streptomyces avidinii</i>
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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>	0.5 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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

Streptavidin is a 52.8 kDa protein from the bacterium *Streptomyces avidinii*. Streptavidin is a homo-tetramer forming a beta-barrel with an extraordinarily high affinity for biotin (also known as vitamin B7). It has a dissociation constant ( $K_d$ ) on the order of  $\approx 10^{-14}$  mol/L. The binding of biotin to streptavidin is one of the strongest non-covalent interactions known in nature and has a high resistance to organic solvents, denaturants, detergents, proteolytic enzymes, and extreme pH ranges or temperatures.