

DESCRIPTION

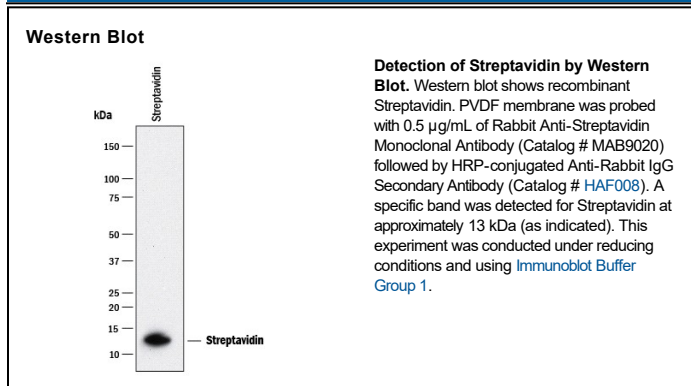
Specificity	Detects Streptavidin in Western blot.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1220C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Purified streptavidin from <i>Streptomyces avidinii</i>
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.