

DESCRIPTION

Specificity	Detects Streptavidin in Western blot.
Source	Monoclonal Rabbit IgG Clone # 1220C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Purified streptavidin from <i>Streptomyces avidinii</i>
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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