

AF 594 streptavidin

http://cn.lumiprobe.com/p/streptavidin-af-594

Streptavidin is a tetrameric biotin-binding protein derived from the bacterium *Streptomyces avidinii*. Streptavidin binds up to four biotin molecules with high affinity and selectivity via multiple hydrogen bonds and van der Waals interactions. Due to the lack of carbohydrate modifications and a near-neutral pl, streptavidin exhibits less nonspecific binding than another biotin-binding protein — avidin. Streptavidin also has high thermostability and resistance against extreme pH, denaturing agents, and enzymatic degradation, allowing using this protein under various experimental conditions.

Fluorescent conjugates of streptavidin are commonly used as a second-step reagent for specific detection of a variety of biotin-labeled biomolecules, such as proteins (antibodies, etc.), nucleic acids, lipids, and other molecules in indirect immunofluorescent staining, western blots, flow cytometry, microplate assays, and other detection techniques.

This streptavidin is a lyophilized conjugate with AF 594, a bright, photostable red fluorophore with spectral characteristics similar to Texas Red (absorption max. at 586 nm, emission max. at 613 nm).

The recommended concentration range for use is 0.5-10 µg/mL. Avoid using biotin-containing solutions (some serums, RPMI 1640, etc.) as diluents.

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吸收 极大 值, 纳米: ε,摩 105000 尔吸 光系 数。071 发射 613 极大 值, 纳米: 荧光 0.77 量子 ______ 产率: CF₂₆₀: 0.28

外观: 溶解

CF₂₈₀: 0.51