

Alexa Fluor[®] 647 Streptavidin

Catalog# / Size	405237 / 100 µg
Regulatory Status	RUO
Other Names	Streptavidin-Alexa Fluor [®] 647, Streptavidin-AF647
Description	Streptavidin binds to biotin with high affinity. Streptavidin-Alexa Fluor [®] 647 is useful for detecting biotinylated antibodies. The excitation of Alexa Fluor [®] 647 by 633 nm / 635 nm laser light induces a light emission maximum of 668 nm.

Product Details

Verified Reactivity	Human, Mouse, Rat, All Species
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	Streptavidin was conjugated with Alexa Fluor [®] 647 under optimal conditions.
Concentration	0.5 mg/ml (concentration relates to the Streptavidin only component of the conjugate)
Storage & Handling	The streptavidin-Alexa Fluor [®] 647 solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested ICFC - Verified
Recommended Usage	<p>This streptavidin product is quality control tested by immunofluorescent staining with flow cytometric analysis. The concentration provided is based upon molecular mass of streptavidin independent of any additional molecular mass that might be added by the Alexa Fluor[®] 647 conjugation. For flow cytometric staining, the suggested use of this reagent is ≤0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor[®] 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.</p> <p>Alexa Fluor[®] and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Red Laser (633 nm)
Application Notes	Streptavidin-Alexa Fluor [®] 647 is useful as a second step reagent for indirect immunofluorescent staining, when used in conjunction with biotinylated primary antibodies. The average molecular weight of Streptavidin-Alexa Fluor [®] 647 is 60 kD and Streptavidin alone is 52 kD.
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Product Citations	<ol style="list-style-type: none">1. Janeczek A, <i>et al.</i> 2017. <i>Nanomedicine.</i> 10.2217/nnm-2016-0386. PubMed2. Shibata K, <i>et al.</i> 2022. <i>Nat Commun.</i> 13:6948. PubMed3. Pobezinskaya EL <i>et al.</i> 2019. <i>Front Immunol.</i> 1.079861111. PubMed

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Antigen Details

Gene ID NA

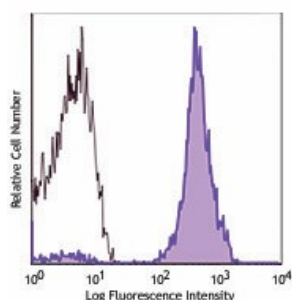
Related Protocols

[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[Cell Surface Flow Cytometry Staining Protocol](#)

[Intracellular Flow Cytometry Staining Protocol](#)

Product Data



Human peripheral blood lymphocytes were stained with biotinylated CD3 (filled histogram) or biotinylated mouse IgG1 isotype control (open histogram), followed by SAV-Alexa Fluor® 647.

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