

## PE/Fire™ 744 Streptavidin

<b>Catalog# / Size</b>	405387 / 25 µg 405388 / 100 µg
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Streptavidin- PE/Fire™ 744, SAV- PE/Fire™ 744, streptavidin PE/Fire™ 744
<b>Description</b>	Streptavidin is a 52.8 kD tetrameric protein obtained from <i>Streptomyces avidinii</i> . It binds to biotin with a very high affinity and is one of the strongest interactions in nature with a dissociation constant of $10^{-14}$ mol/L. It is used to detect biotinylated proteins in a wide range of applications.

### Product Details

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<b>Verified Reactivity</b>	Human, Mouse, Rat, All Species
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	Streptavidin is conjugated with PE/Fire™ 744 under optimal conditions.
<b>Concentration</b>	0.2 mg/mL (concentration relates to the Streptavidin only component of the conjugate)
<b>Storage &amp; Handling</b>	The Streptavidin PE/Fire™ 744 solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<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 PE/Fire™ 744 conjugation. For flow cytometric staining, the suggested use of this reagent is <math>\leq 0.03</math> µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>True-Stain Monocyte Blocker™ (Cat No. 426102) is recommended to minimize non-specific staining of PE/Fire™ 744 on monocytes and macrophages.</p> <p>* PE/Fire™ 744 has a maximum excitation of 565 nm and a maximum emission of 744 nm.</p>
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)

### Antigen Details

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<b>Gene ID</b>	NA
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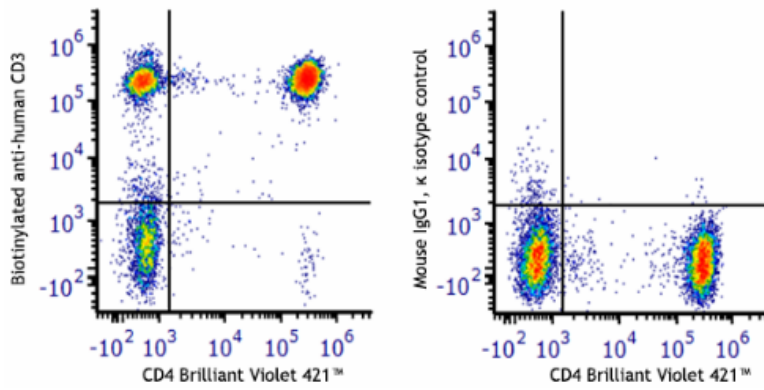
### Related Protocols

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- [Cell Surface Flow Cytometry Staining Protocol](#)

### Product Data

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Human peripheral blood lymphocytes were stained with biotinylated anti-human CD3 (clone UCHT1) (left) or biotinylated mouse IgG1,  $\kappa$  isotype control (right), followed by anti-human CD4 (clone SK3) Brilliant Violet 421™ and SAV-PE/Fire™ 744.

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