

APC/Fire™ 750 Streptavidin

Catalog# / Size	405250 / 100 µg
Regulatory Status	RUO
Other Names	Streptavidin-Allophycocyanin, SA _v -APC
Description	Streptavidin binds to biotin with high affinity. Streptavidin-APC/Fire™ 750 is useful for detecting biotinylated antibodies. The excitation of APC/Fire™ 750 by 600-635 nm laser light induces a fluorescence emission maximum of 787 nm.

Product Details

Verified Reactivity	Human, Mouse, Rat, All Species
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	Streptavidin is conjugated with APC/Fire™ 750 under optimal conditions.
Concentration	0.2 mg/ml (concentration relates to the Streptavidin only component of the conjugate)
Storage & Handling	The Streptavidin APC/Fire™ 750 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	Each lot of this Streptavidin APC/Fire™ 750 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 APC/Fire™ 750 conjugation. For immunofluorescent staining, the recommended use of this reagent is ≤0.25 µg per 10 ⁶ cells in 100 µl staining volume. It is recommended that the reagent be titrated for optimal performance for each application. *APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Application Notes	Streptavidin-Allophycocyanin/Fire™ 750 (APC/Fire™ 750) 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-APC/Fire™ 750 is 350 kD and Streptavidin alone is 52 kD.
Application References	<ol style="list-style-type: none"> Maresz K, <i>et al.</i> 2005. <i>J. Neurochemistry</i> 95:437. Ponomarev ED, <i>et al.</i> 2006. <i>J. Immunol.</i> 176:1402. PubMed. Ponomarev ED, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:39. Mann MK, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:3447. PubMed Ponomarev ED, <i>et al.</i> 2005. <i>J. Immunol Methods.</i> 300:32. PubMed Cao YA, <i>et al.</i> 2008. <i>Blood</i> PubMed Garidou L, <i>et al.</i> 2009. <i>J. Virol.</i> PubMed Dolgachev V, <i>et al.</i> 2009. <i>J. Immunol.</i> 183:5705. PubMed Sountoulidis A, <i>et al.</i> 2012. <i>PLoS One.</i> 7:e41460. PubMed. Izumi T, <i>et al.</i> 2013. <i>Cytotherapy.</i> 15:481. PubMed Hamanaka S, <i>et al.</i> 2013. <i>Biochem Biophys Res Commun.</i> 435:586. PubMed Prince J, <i>et al.</i> 2013. <i>J. Immunol.</i> 191:4709. PubMed Phanse Y, <i>et al.</i> 2013. <i>Acta Biomater.</i> 9:8902. PubMed Orre M, <i>et al.</i> 2014. <i>Neurobiol Aging.</i> 35:1. PubMed Barbera M, <i>et al.</i> 2014. <i>Gut.</i> 64:11. PubMed Zhang Y, <i>et al.</i> 2014. <i>Infect Immun.</i> 82:1698. PubMed Peterson BC, <i>et al.</i> 2014. <i>J Leukoc Biol.</i> 95:809. PubMed Barbera M, <i>et al.</i> 2015. <i>Gut.</i> 64:11. PubMed Charmsaz S, <i>et al.</i> 2015. <i>PLoS One.</i> 10:130692. PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none"> Mudd PA, <i>et al.</i> 2022. <i>Cell.</i> 185:603. PubMed

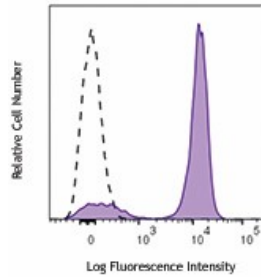
Antigen Details

Gene ID NA

Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Product Data



Human peripheral blood lymphocytes were stained with biotinylated mouse IgG1 isotype control (open histogram), followed by SAV-APC/Fire™ 750.

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