

Cyanine5 Streptavidin

Catalog# / Size	405209 / 100 µg
Regulatory Status	RUO
Other Names	SAv-Cyanine5
Description	Streptavidin binds to biotin with high affinity. Streptavidin-Cy5 is useful for detecting biotinylated antibodies. The excitation of Cy5 by 625-650 nm laser light induces a fluorescence emission maximum of 670 nm.

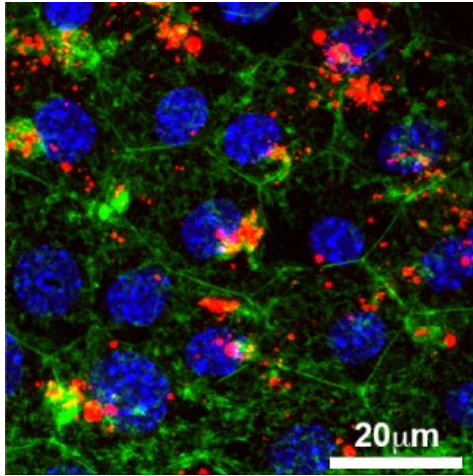
Product Details

Verified Reactivity	Human, Mouse, Rat, All Species
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	Streptavidin is conjugated with Cyanine5 under optimal conditions.
Concentration	0.5 mg/ml (concentration relates to the Streptavidin only component of the conjugate)
Storage & Handling	The streptavidin-Cy5 solution should be stored undiluted between 2°C and 8°C, and protected from exposure to light. Do not freeze.
Application	FC - Quality tested ICFC - Verified
Recommended Usage	Each lot of this Streptavidin-Cyanine5 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 Cyanine5 conjugation. For immunofluorescent staining, the recommended use of this reagent is = 0.5 µg per 10 ⁶ cells in 100 µl staining volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Streptavidin-Cy5 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-Cy5 is 60 kD and Streptavidin alone is 52 kD.
Additional Product Notes	BioLegend is in the process of converting the name Cy5 to Cyanine5. The dye molecule remains the same, so you should expect the same quality and performance from our Cyanine5 products. Please contact Technical Service if you have any questions.
Application References	1. Hsu HC, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:5357. 2. Biegler KA, <i>et al.</i> 2012. <i>Cancer Prev Res (Phila).</i> 5:1173. PubMed 3. Cheng JY, <i>et al.</i> 2014. <i>Cancer Res.</i> 74:6856. PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	1. Müller-Durovic B, <i>et al.</i> 2016. <i>J Immunol.</i> 197: 2891 - 2899. PubMed 2. Cheng J, <i>et al.</i> 2014. <i>Cancer Res.</i> 74:6856. PubMed 3. Dedeoglu B, <i>et al.</i> 2016. <i>PLoS One.</i> 11: 0150826. PubMed 4. Biegler K, <i>et al.</i> 2012. <i>Cancer Prev Res.</i> 5:1173. PubMed

Antigen Details

Gene ID NA

Product Data



Unpassaged live mouse primary retinal pigment epithelial cells engulfed biotinylated photoreceptor outer segments (POS) coupled to Cyanine5 Streptavidin (red). Cells were subsequently stained with Flash Phalloidin™ Green 488 (green) and DAPI (blue). Image generously submitted to the 2017 Cell Life Imaging Competition by Francesca Mazzoni from Fordham University.

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