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STREPTAVIDIN

SKU: SA-5008-1



DESCRIPTION

AMCA Streptavidin is produced by conjugating streptavidin with a coumarin fluorescent dye, 7-amino-4-methylcoumarin-3-acetic acid. This derivative excites in the ultraviolet (350 nm) and emits in the visible (450 nm) producing an intense blue fluorescence.

Amplification of fluorescent signals can be easily achieved with our biotinylated secondary antibodies followed by our highly purified fluorochrome-labeled streptavidin or avidin. Using a biotin/avidin or biotin/streptavidin detection system results in an additional layer of amplification over a directly conjugated secondary antibody.

Features:

- Recommended for routine immunofluorescence applications
- Highly purified and possesses very low non-specific binding properties
- Extremely high affinity for biotin
- Has a high fluorochrome to protein ratio

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

• Compared to conventional primary and secondary fluorescent techniques, can provide greater sensitivity and lower background staining

SPECIFICATIONS

Color of Fluorescence	Blue
Format	Concentrate
Formulation	10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide
Maximum Emission	448-454 nm
Maximum Excitation	345-355 nm
Unit Size	1 mg
Storage Instructions	2-8 °C
Usage Summary	For diluting this product, we recommend a HEPES- or biocarbonate-buffered saline solution, approximately pH 8.2.Avoid using RPMI 1640 or other biotin-containing solutions as diluents.Serum also can contain biotin and should not be added to diluents. The recommended concentration range for use is 10-30 µg/ml.
Applications	Immunofluorescence, In situ hybridization, Flow Cytometry/Cell Separation
Concentration	1.0 mg/ml
Conjugate	AMCA

TECHNICAL INFORMATION

Vector Laboratories fluorochrome-conjugated streptavidin and avidin reagents are highly purified and possess very low non-specific binding properties. They have extremely high affinity for biotin. These fluorescent conjugates can be used to detect biotinylated secondary antibodies and other macromolecules in applications such as immunofluorescence, in situ hybridization, or flow cytometry.

Most paraffin-embedded tissues have little autofluorescence under those conditions. AMCA Streptavidin may provide an advantage in many labeling situations over conjugates of fluorescein and related dyes. AMCA Streptavidin can be used on frozen or paraffin-embedded sections as a single label or in combination with other fluorescent conjugates for multiple

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labeling studies.

CITATIONS

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- Safety Data Sheet
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GALLERY IMAGES



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