



VitroView™ FL647 Conjugated Streptavidin

SKU#: VB-1124

Description

Vitroview™ FL647 conjugated streptavidin is prepared by covalently labeling streptavidin with FL647 dye. Streptavidin has high binding affinity with biotin, so streptavidin conjugate is commonly used together with biotin conjugate for specific detection of a variety of proteins, protein motifs, nucleic acids, and other molecules. Strategies similar to this are used in many detection protocols including western blots, flow cytometry, imaging and microscopy, and microplate assays.

Specification

Conjugate	FL647
Physical State	1.0 mg/ml (liquid)
Buffer	PBS, pH 7.4
Perservative	0.02% Sodium azide
Stabilizer	0.1% BSA
Excitation/ Emission	647/664 nm

Package Size: 200 µg in 200µl buffer

Application:

- Immunofluorescence microscopy
- *In Situ* Apoptosis (TUNEL) assay, visualized with fluorescence
- *In Situ* hybridization
- Flow cytometry
- Tetramer staining
- ELISA
- Microarrays
- Western blot

Reconstitution and Storage:

Product is stable for about 6 months at 2- 8°C as an undiluted liquid. Prepare working dilution fresh each day. For extended storage after rehydration, add an equal volume of glycerol for a final concentration of 50%, and store at -20 °C as a liquid.

Guidelines for Use

Centrifuge the reconstituted protein conjugate solution briefly in a microcentrifuge before use. Add only the supernatant to the experiment. This step eliminates any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining. Because staining protocols vary with application, the appropriate dilution of antibody should be determined empirically. For the fluorophore-labeled streptavidin, a final concentration of 1–10 µg/mL should be satisfactory for most immunohistochemical applications. For flow cytometry applications, 0.06–1.0 µg per 1×10^6 cells should yield satisfactory result.