

Streptavidin - FITC

CATALOG NO: P1498-10 10 mg
P1498-50 50 mg

MOL. WT. ~56 KDa

SOURCE: E. coli

PURITY: >95% SDS-PAGE

FORM: Lyophilized

FORMULATION: Lyophilized powder without additives

RECONSTITUTION: ≥ 10 mg/ml in water or PBS.

BINDING ACTIVITY: ≥ 12 biotin/mg Streptavidin
Note: The binding capacity/ activity is determined using BioVision's Biotin Quantitation Kit (Colorimetric) (Cat# K811) in 0.2 M Phosphate buffer pH 7.0, based on biotin binding (HABA) assay. The theoretical binding activity is 14 biotin/mg of streptavidin.

STORAGE CONDITIONS: Store at -20°C. For optimal storage, aliquot after reconstitution and store at -20 °C for long term and 4°C for short term (3-4 weeks).

DESCRIPTION: Streptavidin is a non-glycosylated protein originally isolated from bacterium *Streptomyces avidinii*. With a very high affinity for biotin, it is widely used to bridge biotinylated probes and enzymes. FITC labeled streptavidin is widely applied in flow cytometry, immunofluorescence cell staining, fluorescence in situ hybridization and other biological assays.

- APPLICATIONS:**
- Immunoassays
 - Immunohistochemistry
 - FISH (Fluorescence In Situ Hybridization)
 - Flow Cytometry
 - Microarray
 - Blot analysis
 - Isolated Biotinylated Molecules
 - DNA Hybridization Techniques

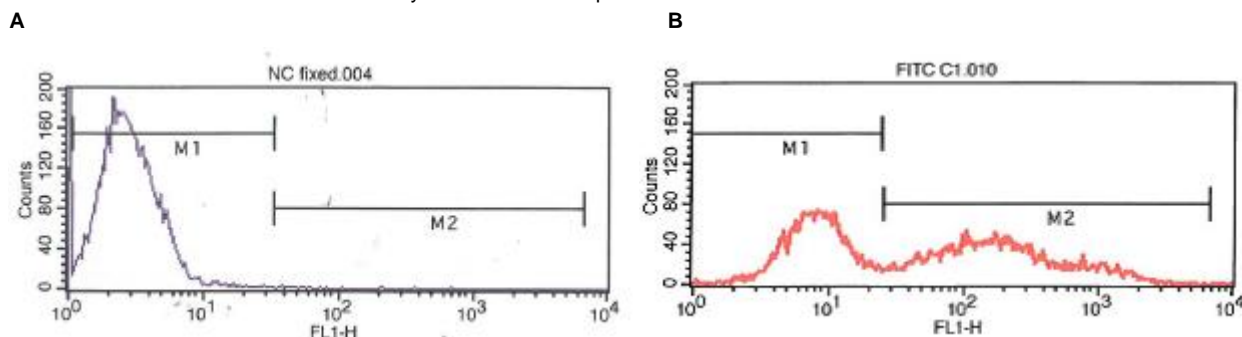


Figure. The Streptavidin-FITC was used in the Annexin V-biotin based Apoptosis assay using BioVision's Annexin V-Biotin Apoptosis Detection Kit (Cat. No. K109). 2x10⁴ Jurkat cells were induced with camptothecin and Streptavidin-FITC at the concentration of 5 µg/ml and detected by flow cytometry **A:** control cells (non-induced); **B:** apoptotic cells (induced)

RELATED PRODUCTS:

- Streptavidin coated 96-well Plate (6523)
- Annexin V-Biotin Apoptosis Kit (K109)
- Streptavidin-Sepharose Beads (6565)
- Core Streptavidin (7936)

FOR RESEARCH USE ONLY! Not to be used on humans.