

Streptavidin (APC)

Cat. No. GTX85908

Applications

ICC/IF, FCM

Package

500 µl

PRODUCT

Summary

Streptavidin is a 55 kDa (subunit MW 14 kDa) biotin-binding protein isolated from *Streptomyces avidini*. Streptavidin is superior to avidin, because it does not contain carbohydrate like avidin and has no net charge at neutral pH. Streptavidin~biotin system is routinely used in Immunohistochemistry (IHC). Extinction Coefficient 1% A280=32.0; Protein content: > 95%. Allophycocyanin is a protein from the light-harvesting phycobiliprotein family, along with phycocyanin, phycoerythrin and phycoerythrocyanin. It is an accessory pigment to chlorophyll. Allophycocyanin absorbs and emits red light (650 & 660nm max, respectively), and is readily found in Cyanobacteria (also called blue-green algae), and red algae. Phycobilin pigments have fluorescent properties that are used in immunoassay kits. Allophycocyanin can be isolated from various species of red or blue-green algae, each producing slightly different forms of the molecule. It is composed of two different subunits (α and β) in which each subunit has one phycocyanobilin (PCB) chromophore. The subunit structure for APC has been determined as ($\alpha\beta$)₃. The molecular weight of APC is 105,000 Daltons. Absorption max: 652 nm, additional adsorption 625 nm, Emission max. 657.5 nm, Extinction Coefficient: 2.4 1 (mg/ml), A650/A280=4, A650/A620=1.25.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution

Recommended dilution

ICC/IF

Assay dependent

FCM

Assay dependent

Not tested in other applications.

Properties

Form

Liquid

Buffer

10mM Phosphate, 150mM NaCl, 1% BSA

Preservative

0.05% Sodium azide

Storage

Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C. Protect from light.

Conjugation

Allophycocyanin (APC) [Wavelength](#)

Note

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.



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