

AF 350 CTB

Article number: KF-YG0801

specification: 100 μ g

Product description

Recombinant cholera toxin B subunit (rCTB) lacks cholera toxicity but retains the ability to bind to the ganglioside GM1 on cell membranes making it a widely used, safe, and effective retrograde neuronal tracer. Furthermore, the binding of CTB to GM1 can identify lipid rafts; therefore, CTB is also frequently as a marker for lipid rafts. The addition of fluorescent dyes allows the labeling and tracing processes to be observed and identified more conveniently and effectively, making fluorescently labeled CTB conjugates the choice as lipid raft markers and endocytosis tracers for live-cell imaging or fixed cells.

- Conjugates are available in 24 bright and photostable fluorescent dyes, ranging from green to near-infrared.
- Among them, CF[®] dyes are second-generation dyes specially designed by Biotium, offering advantages of good water solubility, high stability, and strong fluorescence brightness compared to other commercially available dyes.



- As fluorescent lipid raft markers and retrograde neuronal tracers, they can be used for real-time imaging of live cells or staining of fixed cells.
- HRP, FITC rhodamine, and biotin-labeled CTB meet the needs of more application scenarios.

Product Nature

Probe cellular localization: membrane/cell surface

Experimental subject: fixed cells or intact/live cells

Detection type: real-time imaging

Detection method: fluorescence microscopy, flow cytometry

Cell permeability: non-permeable

Fixation options: pre-staining fixation (formaldehyde), post-staining fixation (formaldehyde)

Toxin: Cholera toxin

Color: Blue, green, orange, red, far-red, near-infrared

Form: Lyophilized powder

Storage and transportation

Storage conditions: Store at -20° C protected from light; valid for at least 6 months.

It is recommended to aliquot the stock solution after first thaw and prepare it to



an appropriate concentration for storage, avoiding repeated freeze-thaw cycles that may cause partial protein inactivation. Once reconstituted, the product is valid for 3 when stored at 4° C; valid for 6 months when stored at -20° C.

Staining example

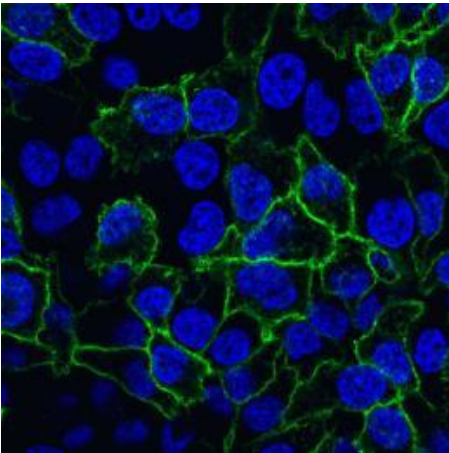


Figure 1. HeLa cells surface-labeled with CF®488A CTB (green) at 4° C, then fixed, permeabilized, and stained with DAPI (blue).



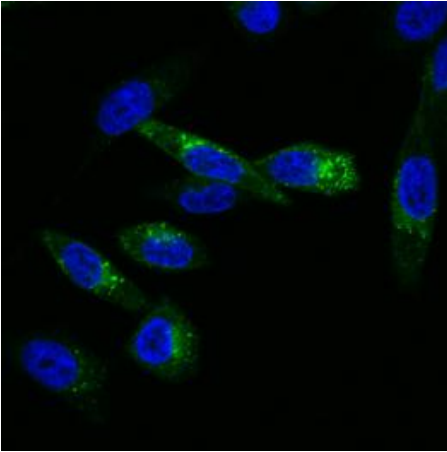


Figure 2. HeLa cells were incubated with CF[®]488A CTB (green) at 37° C for 30 minutes for endocytosis, then fixed, permeabilized, and stained with DAPI (blue).

