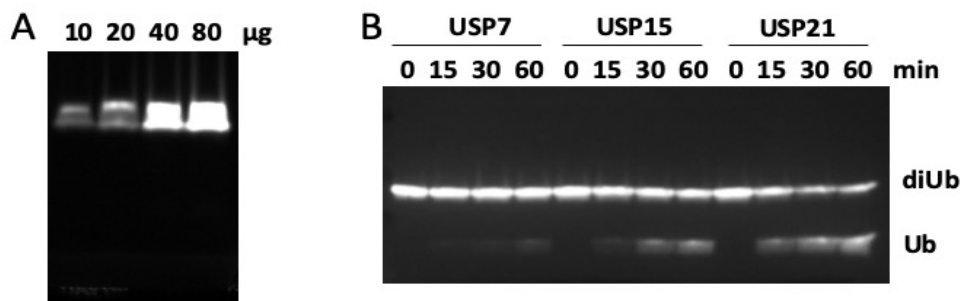


Fluorescein labeled K48 Ub2

Cat. # D1110

Also Known as: Fluorescein Labeled K48 Ub2
NCBI Reference: N/A
MW (no tag): 17.6 kDa
Species: Human
Source: Bacterial recombinant
Tag: None
Stock Buffer: 20 mM Tris, pH 7.1 at 37 °C, 150 mM NaCl, 2 mM βME, 10% Glycerol
Concentration: See tube label
Quality Assurance: >90% purity based on SDS-PAGE.

Image



A. Fluorescein K48-Ub2 was separated on 15% SDS-PAGE, and visualized under 488 nm light.

B. 20 nM USP7, USP15 or USP21 was mixed with 150 nM Fluorescein-K48-Ub2. Reactions were stopped by adding SDS sample buffer, and proteins were separated on 15% SDS-PAGE, visualized under 488 nm light.

Description: This product contains an authentic K48-linked isopeptide bond, synthesized by using an enzymatic reaction containing UbE1, E2-25K, Ub(K48R) and Ub-fluorescein. Fluorescein is labeled on the C-terminus of Ub by mutating glycine 76 to a cysteine. In fluorescein labeled K48 Ub2, fluorescein is labeled on the proximal Ub. It is an excellent tool for monitoring deubiquitination that can be visualized by in-gel fluorescent detection of the production of fluorescein labeled monoUb (excitation at ~490 nm, and see product data sheet for examples). The assay is more quantitative and sensitive than immunoblotting of Ub. The detection limit is 10 ng or less.

Storage: Store at -80°C; avoid multiple freeze-thaw cycles

Note: Use a gel documentation system with a light source at ~480 - 500 nm to visualize fluorescein fluorescence in SDS-PAGEs.