Fluorescein-Anti 6xHis Monoclonal mAb

Catalog # T6010

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Also Known as:	Fluorescein-Anti-His Antibody
Quantity:	50 µg
Isotype:	Mouse IgG2b
Clone:	His.H8
MW:	150 kDa
Species:	Mouse monoclonal
Immunogen:	HHHHHH (6xHis) synthetic peptide conjugated to KLH
Applications:	WB and TR-FRET
Stock Buffer:	10 mM PBS (pH 7.2), 10% Glycerol, 0.09% NaN3 (sodium azide)
Concentration:	See tube label
Quality Assurance:	Validated by RELAY^{TR} E2-Ub charging assays.

Image
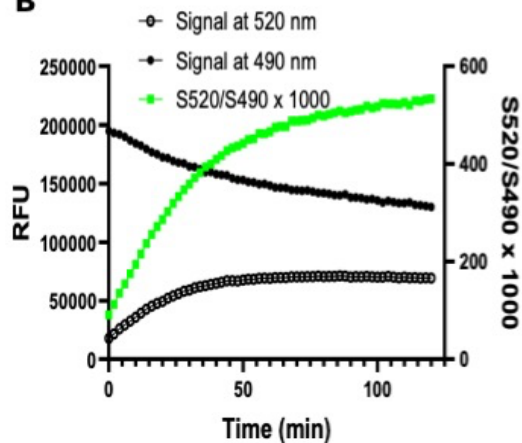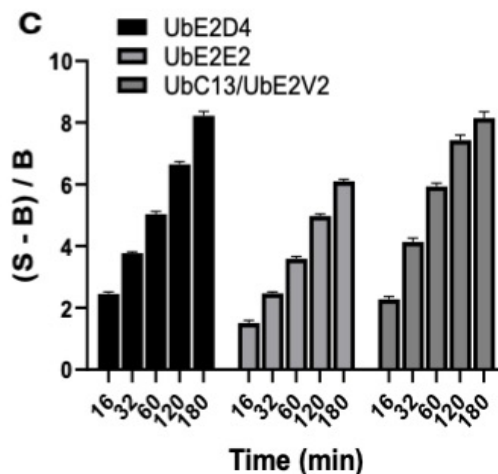
A. Schematic of the RELAY^{TR} E2-Ub Charging Assay using 6xHis-tagged E2, fluorescein-Anti-6xHIS antibody and terbium-Ub.

B. Kinetic mode monitoring 10 nM 6xHis-Ubc13/UbE2V2 charging with Ub. S520/S490 ratios from reactions with ATP were positive Signal (S), and without ATP were Backgrounds (B, data not shown).

C. Time course of E2-Ub charging assays. The signal-to-background ratio was calculated by using the formula of (S-B)/B.

Description: Fluorescein (6-FAM) is covalently conjugated on anti-His monoclonal mAb (clone #: HIS.H8), and purified by gel filtration. Usually, the molar ratio of fluorescein to antibody is at the range of 3-12.

In TR-FRET assays, a typical concentration of fluorescein labeled antibody is equal or less than the concentration of the target protein. User should optimize the assay to achieve a desirable signal-to-background ratio, including the concentration and ratio of fluorescein or terbium labeled antibody, IgG or proteins corresponding to your specific assay design.

TR-FRET assay reaction time is usually 1-3 hours in kinetic or end point assay.

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

Note: A TR-FRET capable plate reader is required. Our assays were performed using a PHERAstar FS instrument with the 337/520/490 nm filter set. Intergration started at 50 µs, and intergration time was 400 µs.

Literature: https://www.bmglabtech.com/en/tr-fret/