



# **Europium Fluorophore** DTBTA-Eu<sup>3+</sup>-labeled **Secondary Antibodies and Streptavidin**

Highly-sensitive Detection Probes by Time-resolved Fluorometry

# **Advantages**

## No cross talk of excitation light

- $\lambda_{\text{ex, max}} = 335 \text{ nm}$
- $\lambda_{em, max} = 616 \text{ nm}$

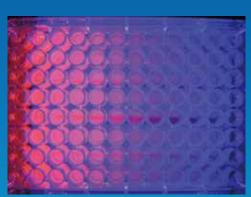
**Sharpened emission spectrum** 

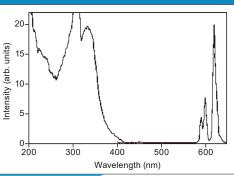
Large Stokes shift (the difference in wavelength between positions of the band maxima of the absorption and emission spectra)

Stable fluorescence in various aqueous buffers Available in Tris, TE, PBS, etc. for wide use

## Long fluorescent life time ( $\tau = 1.02 \text{ ms}$ )

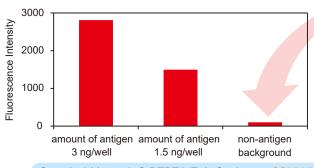
Time-resolved fluorometric measurement can remove background fluorescence from the sample matrix and often gives detectability better than one order of magnitude compared to those of conventional fluorometric assays.



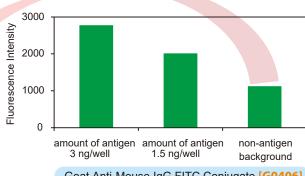


# Comparison of secondary antibody conjugated to DTBTA-Eu<sup>3+</sup> or FITC

# Time-resolved fluorometric measurement can remove background fluorescence! To obtain a high SN ratio



Goat Anti-Mouse IgG DTBTA-Eu<sup>3+</sup> Conjugate [G0505]



Goat Anti-Mouse IgG FITC Conjugate [G0406]

## <Assay condition>

Dilute the Mouse IgG to each concentration. Coat 96-well plates with diluted Mouse IgG. Block the plates with BSA/TBST. Incubate with Goat Anti-Mouse IgG Conjugates prepared from DTBTA or FITC at 2.5 µg/mL. After incubation, measure the fluorescence intensity on a plate reader. DTBTA-Eu3+; excitation=340 nm, emission=620 nm. Lag Time: 450 µsec

FITC; excitation=485 nm, emission=520 nm.

# **Europium Fluorophore DTBTA-Eu<sup>3+</sup>-labeled Secondary Antibodies and Streptavidin**

# DTBTA-Eu<sup>3+</sup>-labeled Secondary Antibodies and Streptavidin

Goat Anti-Mouse IgG DTBTA-Eu<sup>3+</sup> Conjugate 0.1mg/vial [G0505] Goat Anti-Rabbit IgG DTBTA-Eu<sup>3+</sup> Conjugate 0.1mg/vial [G0506] Streptavidin DTBTA-Eu<sup>3+</sup> Conjugate 0.1mg/vial [S0993]

## **Related Products**

# **Europium Fluorescent Labeling Reagent and Related Products**

ATRTA-Eu3+ 10mg [A2083] 25g / 500g [C0460] **Cyanuric Chloride** Anti-DTBTA-Eu<sup>3+</sup> Rabbit Antiserum 0.5mL [A2181] nti-DTBTA-Eu<sup>3+</sup> Rabbit Polyclonal Antibody 0.5mL [A2239]

## **Secondary Antibodies**

Goat Anti-Mouse IgG 1mg/vial [G0386] **Goat Anti-Mouse IgG Biotin Conjugate** 0.1mg/vial [G0387] **Goat Anti-Mouse IgG FITC Conjugate** 0.1mg/vial [G0406] **Goat Anti-Mouse IgG R-PE Conjugate** 0.1mg/vial [G0569] **Goat Anti-Mouse IgG HRP Conjugate** 0.1mg/vial [G0407] Goat Anti-Mouse IgM 1mg/vial [G0408] **Goat Anti-Mouse IgM Biotin Conjugate** 0.1mg/vial [G0432] **Goat Anti-Mouse IgM FITC Conjugate** 0.1mg/vial [G0453] **Goat Anti-Mouse IgM HRP Conjugate** 0.1mg/vial [G0417] Goat Anti-Rabbit IgG 1mg/vial [G0388] **Goat Anti-Rabbit IgG Biotin Conjugate** 0.1mg/vial [G0389] **Goat Anti-Rabbit IgG FITC Conjugate** 0.1mg/vial [G0452] Goat Anti-Rabbit IgG R-PE Conjugate 0.1mg/vial [G0577] Goat Anti-Rabbit IgG HRP Conjugate 0.1mg/vial [G0418] Mouse Anti-Human IgG Fc 0.1mg/vial [M2977] Sheep Anti-Chicken IgY 1mg/vial [S0998] Sheep Anti-Chicken IgY Biotin Conjugate 0.1mg/vial [H1619]

# **Streptavidins**

Streptavidin from Streptomyces avidinii 1mg/vial [S0951] Streptavidin FITC Conjugate 0.1mg/vial [\$0966] Streptavidin R-PE Conjugate 0.1mg/vial [T3885] **Streptavidin HRP Conjugate** 0.1mg/vial [S0972] **Streptavidin Maleimide Conjugate** 0.5mg/vial [T3531]

For further information please refer to our website at www.TCIchemicals.com. >>> TCI DTBTA or antibody





### Ordering and **Customer Service**

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