

Europium Fluorophore DTBTA-Eu³⁺-labeled Secondary Antibodies and Streptavidin

Highly-sensitive Detection Probes
by Time-resolved Fluorometry

Advantages

No cross talk of excitation light

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

Sharpened emission spectrum

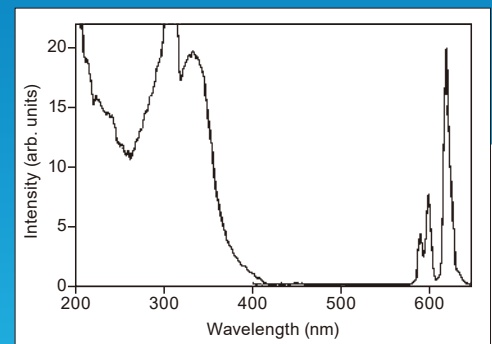
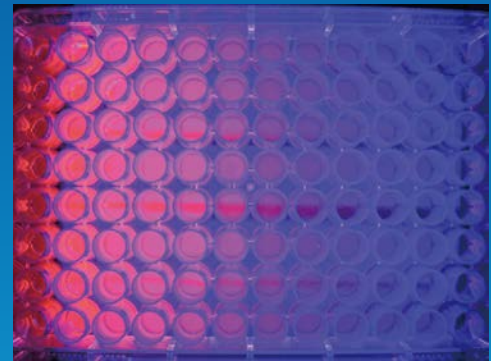
Large Stokes shift (the difference in wavelength between positions of the band maxima of the absorption and emission spectra)

Stable fluorescence in various aqueous buffers

Available in Tris, TE, PBS, etc. for wide use

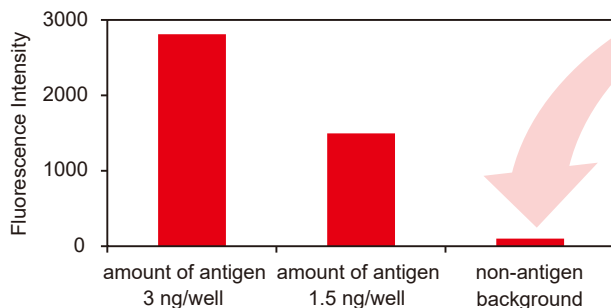
Long fluorescent life time ($\tau = 1.02 \text{ ms}$)

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.

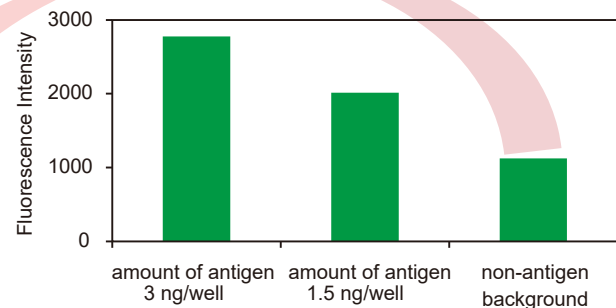


Comparison of secondary antibody conjugated to DTBTA-Eu³⁺ or FITC

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



Goat Anti-Mouse IgG DTBTA-Eu³⁺ 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 $\mu\text{g}/\text{mL}$. 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.

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DTBTA-Eu³⁺-labeled Secondary Antibodies and Streptavidin

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

Europium Fluorescent Labeling Reagent and Related Products

ATBTA-Eu ³⁺	10mg [A2083]
Cyanuric Chloride	25g / 500g [C0460]
Anti-DTBTA-Eu ³⁺ Rabbit Antiserum	0.5mL [A2181]
Anti-DTBTA-Eu ³⁺ 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 <i>Streptomyces avidinii</i>	1mg/vial [S0951]
Streptavidin FITC Conjugate	0.1mg/vial [S0966]
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. ▶▶▶ DTBTA or antibody



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