

New



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

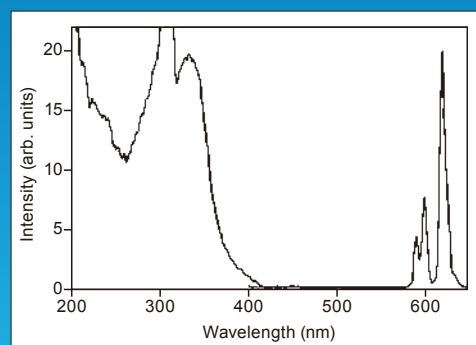
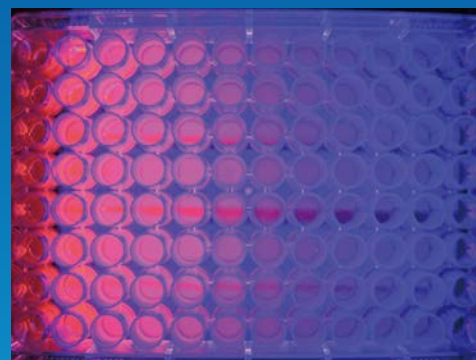
Large Stokes shift (the difference in wavelength between positions of the band maxima of the absorption and emission spectra)

Stable fluorescence in various aqueous buffers

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

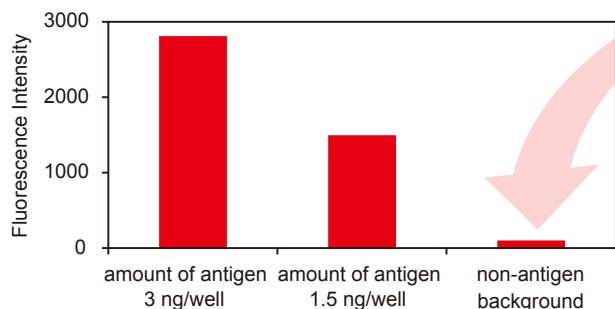
Long fluorescent life time ($\tau = 1.02 \text{ ms}$)

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.

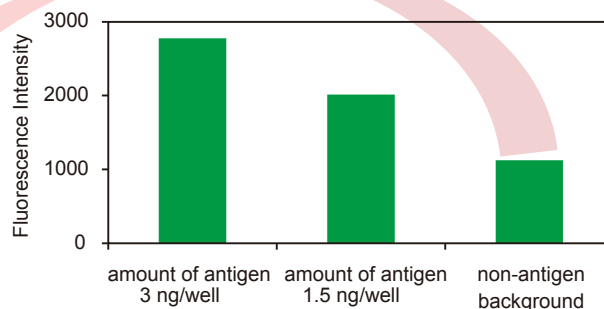


Comparison of secondary antibody conjugated to DTBTA-Eu³⁺ or FITC

**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 $\mu\text{g/mL}$. 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

G0505 Goat Anti-Mouse IgG DTBTA-Eu³⁺ Conjugate	0.1mg / vial
G0506 Goat Anti-Rabbit IgG DTBTA-Eu³⁺ Conjugate	0.1mg / vial
S0993 Streptavidin DTBTA-Eu³⁺ Conjugate	0.1mg / vial

Europium Fluorescent Labeling Reagent and Related Products

A2083 ATBTA-Eu³⁺	10mg
C0460 Cyanuric Chloride	25g / 500g
A2181 Anti-DTBTA-Eu³⁺ Rabbit Antiserum	0.5mL
A2239 Anti-DTBTA-Eu³⁺ Rabbit Polyclonal Antibody	0.5mL

Secondary Antibodies

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

Streptavidins

S0951 Streptavidin from <i>Streptomyces avidinii</i>	1mg / vial
S0966 Streptavidin FITC Conjugate	0.1mg / vial
S0972 Streptavidin HRP Conjugate	0.1mg / vial

For further information please refer to our website at www.TCIchemicals.com.

DTBTA or antibody



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