

Anti-FLAG *ULight* LANCE Ultra Toolbox

Product number: TRF0059D/M/R

Lot number: 2876473

Manufacturing date: May 25, 2021

Research Use Only. Not for use in diagnostic procedures.

Material Provided

Format: TRF0059D 1 nmole (1 000 assay points*)
TRF0059M 10 nmoles (10 000 assay points*)
TRF0059R 100 nmoles (100 000 assay points*)

*Assuming 1 pmol/ assay point

Volume: 2 x 1mL (TRF0059D), 2 x 10 mL (TRF0059M) or 2 x 100 mL (TRF0059R)

Product Information

Application: *ULight* has been conjugated to anti-FLAG antibody. The mouse monoclonal recognizes the FLAG sequence at the N-terminus, Met N-terminus, C-terminus, and internal sites. This toolbox can be used to capture FLAG-tagged proteins and peptides,

Storage: Store kit in the dark at +4°C.

Stability: This kit is stable for at least 12 months from the manufacturing date when stored in its original packaging and the recommended storage conditions

Quality Control

The QC release specifications are based on spectrophotometric analysis of the labeled antibody. We certify that results meet our quality release criteria.

Labeling Ratio: 4.2 (ULight/Protein)

Concentration: 80 µg/mL (0.5 µM)

Description of the LANCE Ultra Assay

LANCE[®] and LANCE[®] (Lanthanide chelate excite) *Ultra* are our TR-FRET (time-resolved fluorescence resonance energy transfer), homogeneous (no wash) technologies. One antibody of interest is labeled with a donor fluorophore (a LANCE Europium chelate) and the second molecule is labeled with an acceptor fluorophore [*ULight*[™] dye]. Upon excitation at 320 or 340 nm, energy can be transferred from the donor Europium chelate to the acceptor fluorophore if sufficiently close for FRET (~10 nm). This results in the emission of light at 665 nm.

Recommendations

Sodium azide should **not** be added to the stock reagents. High concentrations of sodium azide (> 0.001 % final in the assay) might decrease the signal.

Specific additional required reagents and materials:

The following materials are recommended:

Item	Suggested source	Catalog #
TopSeal™-A Plus Adhesive Sealing Film	PerkinElmer Inc.	6050185
Optiplate 96 or 384-well plate	PerkinElmer Inc.	6005290 (96) 6007299 (384)
VICTOR X, ViewLux, EnVision or EnSpire Multilabel Plate Reader equipped with TR-FRET option	PerkinElmer Inc.	-

Troubleshooting Guide

You will find detailed recommendations for common situations you might encounter with your LANCE Ultra Assay kit at:

<http://www.perkinelmer.com/Resources/TechnicalResources/ApplicationSupportKnowledgebase/LANCE/lance.xhtml>

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