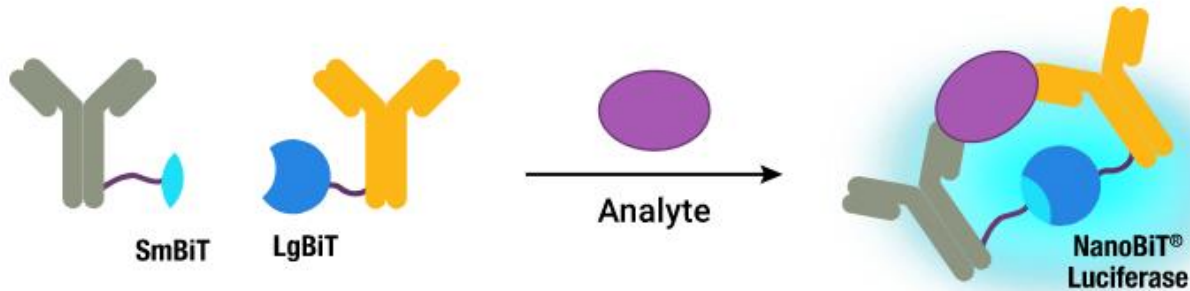


Lumit™ Immunoassay Portfolio

Lumit™ Immunoassay Platform



Lumit Technology enables bioluminescence-based detection of specific antigens or antibodies, simplifying immunoassay protocols and speeding time to results. Based on the award-winning NanoBiT® complementation system, Lumit™ Technology powers sensitive and accurate immunoassays for research and clinical applications.

Lumit™ Immunoassays provide a faster, more reliable alternative to ELISAs, eliminating the variability associated with multiple wash steps, and providing the convenience of a simple and sensitive luminescent detection method.

Assay Advantages

Fast, no-wash protocol:

Time to results in 70 minutes or less with simple add-mix-measure protocol

Large Dynamic Range:

Reduce sample dilutions needed with assays that are linear over 4 logs

Perform directly on cell culture samples:

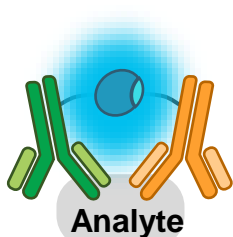
Assay cell supernatants directly on cell plates; no transfer step required

Requires Only a Luminometer:

No specialized instrument required

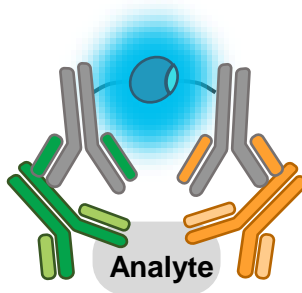
Assay Format Options

Direct



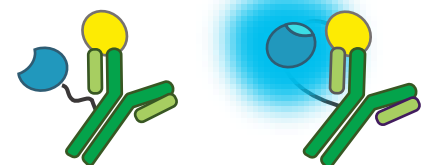
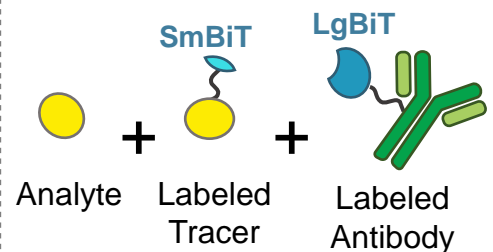
- 1° antibodies labeled w/ NanoBiTs
- Maximizes number of Ab pairs can test for assay development

Indirect



- 2° antibodies labeled w/ NanoBiTs
- Universal approach for use with unlabeled 1° antibodies

Competitive Binding



Requires antibody and tracer labeling

Catalog Information

Lumit™ Labeling and Detection Kits	Cat. #
Lumit™ Immunoassay Labeling System Perform labeling of antibodies with Lumit™ reagents to create your own Lumit™ immunoassay for additional targets	VB2500
Lumit™ Immunoassay Detection Reagent A Detection reagent used with labeled Lumit™ antibodies	VB2010
Lumit™ Immunoassay Detection Reagent B Detection reagent used with labeled Lumit™ antibodies in cell-based applications	VB4050
Lumit™ Immunoassay Cellular Systems	Cat. #
Lumit™ Immunoassay Cellular System – Starter Kit Two sets of labeled secondary antibodies and reagents required to perform Lumit™ assays with customer-provided primary antibodies. Also available as separate Set 1 (W1201) and Set 2 (W1331) configurations.	W1220
Lumit™ Immunoassay Lysis and Detection Kit Includes reagents required to lyse cells and detect luminescence in a Lumit™ cellular assays with customer-provided primary antibodies.	W1231
Cytokine Immunoassays	Cat. #
Lumit™ IL-1β (Human) Immunoassay	W6010
Lumit™ IL-1β (Mouse) Immunoassay	W7010
Lumit™ IFN-γ (Human) Immunoassay	CS2032B03
Lumit™ IL-2 (Human) Immunoassay	CS2032B01
Lumit™ IL-6 (Human) Immunoassay	CS2032B02
Lumit™ TNF-α (Human) Immunoassay	CS2032B04
Lumit™ IL-4 (Human) Immunoassay	CS2032B05
Lumit™ IL-10 (Human) Immunoassay	CS2032B06
Metabolic Regulators Immunoassays	Cat. #
Lumit™ Insulin Immunoassay Kit	CS3037A01
Lumit™ Glucagon Immunoassay Kit	CS3037A03

Additional sizes available

Neonatal Fc Receptor Binding	Cat. #
Lumit™ FcRn Binding Immunoassay	W1151
Inflammation Markers	Cat. #
Lumit™ HMGB1 (Human) Immunoassay	CS3030B01
SARS-CoV-2	Cat. #
Lumit™ SARS-CoV-2 Spike RBD: hACE2 Immunoassay (research use only)	CS3163B01

Peer-Reviewed Citations

Assays Used: Metabolic Regulators

[Reductive TCA cycle metabolism fuels glutamine-and glucose-stimulated insulin secretion](#)
Zhang, G. et al. (2020) *Cell Metabolism* (pre-proof)

[GIP mediates the incretin effect and glucose tolerance by dual action on α cells and β cells](#)
El, K. et al. (2021) *Science Advances* **7**(11) eabf1947

Assays Used: SARS-CoV-2 Antibody Test

[Predicting the Efficacy of COVID-19 Convalescent Plasma Donor Units with the Lumit Dx anti-Receptor Binding Domain Assay](#)
Janaka, S. et al. (2021) medRxiv (preprint)

Promega-authored citations

[A homogeneous bioluminescent immunoassay to probe cellular signaling pathway regulation](#)
Hwang, B. et al. (2020) *Communications Biology* **3**: 8

[Development of a novel homogeneous immunoassay using the engineered luminescent enzyme NanoLuc for the quantification of the mycotoxin fumonisin B1](#)
Alsulami, T. et al. (2021) *Biosensors and Bioelectronics* **177**, 112939

Explore the Portfolio at
www.Promega.com/Lumit

GloMax and NanoBIT are registered trademarks; Lumit is a trademark of Promega Corporation. Products may be covered by issued or pending patents or subject to use limitations, please visit www.promega.com for more information.



PROMEGA CORPORATION • 2800 WOODS HOLLOW ROAD • MADISON, WI 53711-5399 USA • TELEPHONE 608-274-4330

www.promega.com • ©2021 PROMEGA CORPORATION • ALL RIGHTS RESERVED • PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE • DS527 CREATED 04/2021