

WST-1 CTLL-2 Cell Proliferation Kit (ready-to-use) optimized for applications with CTLL-2 cells

For research use only. Not intended for diagnostic or therapeutic procedures.

Cat. No.:	WST1.CTLL150813.1 (10 ml) WST1.CTLL 150813.2 (25 ml) WST1.CTLL 150813.3 (4 x 25 ml)
Lot:	(see product label)
Components:	WST-1 reagent and electron mediator in buffer solution
Quantity:	1 x 10 ml sufficient for 1000 assays 1 x 25 ml sufficient for 2500 assays 4 x 25 ml sufficient for 10000 assays

Description: Immunservice's WST-1 CTLL-2 Cell Proliferation Kit (ready-to-use) was specifically optimized for applications with CTLL-2 cells. The cytotoxic murine T-cell line CTLL-2 is well-suited and frequently used to assess the biological activity of the cytokines Interleukin 2 (IL-2) as well as IL-4, IL-12 and IL-18 via the extent of cell proliferation. Immunservice's WST-1 CTLL-2 Cell Proliferation Kit (ready-to-use) provides an easy, fast and accurate method to determine this cell proliferation. Quantification is based on cleavage of the water-soluble tetrazolium salt WST-1 to the formazan dye by viable cells. An increase in the number of viable cells leads to an increase in the amount of formazan dye produced, which can be quantified by measuring the absorbance at 420-480 nm. This absorbance strongly correlates with the number of viable cells. In combination with our detailed user manual, you will find the solution for your cell proliferation and inhibition experiments with CTLL-2 cells.

Applications:

- Measurement of CTLL-2 cell proliferation
- Determination of the biological activity of human and murine IL-2 and IL-4 as well as murine IL-12 and IL-18 via measurement of CTLL-2 cell proliferation.
- Impact of cytotoxic and cytostatic substances (drugs, other pharmaceutical agents).
- Screening and specific detection of cell growth inhibitors, e.g. antibodies, physiological mediators, virus- and tumor-induced immune inhibitors.

Storage: Store at -20°C. To avoid repeated freezing and thawing, aliquot the solution (1 ml is sufficient for one 96-well microplate).
If stored properly, the Immunservice WST-1 Cell Proliferation Kit (ready-to-use) is stable for at least 6 months.

References:

1. Berridge, M. V., Herst, P. M. & Tan, A. S. **Tetrazolium dyes as tools in cell biology: New insights into their cellular reduction.** Biotechnol. Annu. Rev. 11, 127-152 (2005)
2. Davis, L. S., Lipsky, P. E. & Bottomly, K. **Measurement of human and**

murine interleukin 2 and interleukin 4. Curr. Protoc. Immunol. Chapter 6, Unit 6.3 (2001)

3. Khatri A1, Husaini Y, R. P. **Murine CTLL-2 cells respond to mIL12: prospects for developing an alternative bioassay for measurement of murine cytokines IL12 and IL18.** *J. Immunol. Methods* **326**, 41-53 (2007)

For additional references please contact Research@immunservice.com

Additional Products:

- | | |
|---|-------------------------|
| 1. WST-1 Cell Proliferation Kit (ready-to-use) | Cat. No. WST1.150813.1 |
| 2. i2Cult IL-2 Complete Medium
- for the culture of IL-2-dependent cells | Cat. No. IL2.130411.4 |
| 3. i2Cult CTLL-2 Complete Medium | Cat. No. IL2. 130411.5 |
| 4. Recombinant Human Interleukin-2 | Cat. No. IL2.130411.1-3 |
-

For research use only. Not intended for diagnostic or therapeutic procedures.
