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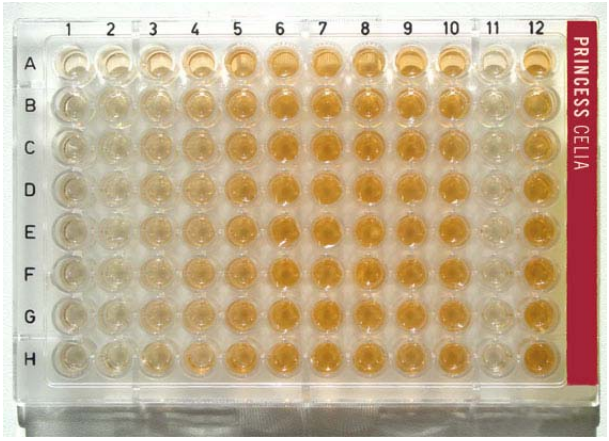
# PRINCESS® CELIA - Instant Cytotoxicity Assay

**PRINCESS® CELIA** – the Instant Cytotoxicity Assay defines a new generation of cell based assays. Cells are frozen in microwell plates without toxic cryoprotectives and are stable at -80°C for several months. The assay plates can be used immediately after thawing without passaging or washing the cells. Cells are revitalised simply by adding medium. You will work with identical cells from the same batch in series of assays. No precultivation or expansion of cells is necessary. For routine cytotoxicity assay different cell lines are prepared in Princess assay plates and can be analysed with common viability protocols.




**XTT Assay**

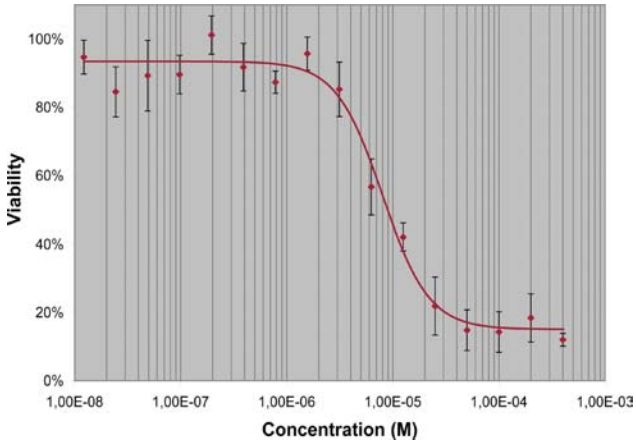



**Fig. 1:** Determination of IC50 Cytotoxicity using Princess CELIA Instant Assay Plates.

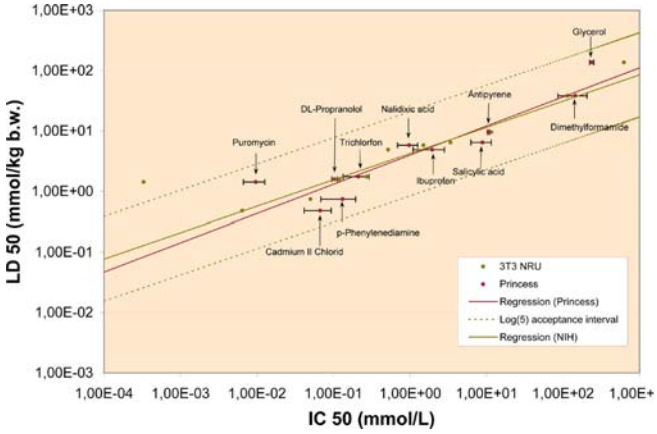



**Fig. 2:** Princess CELIA was qualified to be a valid alternative to animal experiments. According to the recommendations of a NIH guidance document, 11 Reference chemicals were tested. The results were subjected to a regression analysis with LD50 data from animal testing.

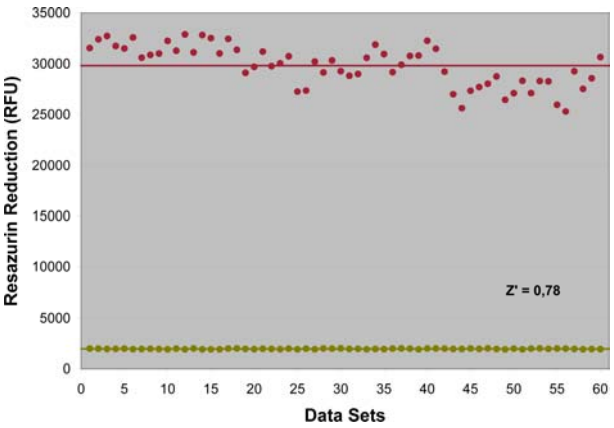



**Fig. 3:** Z'-Factor of Princess CELIA - Instant Cytotoxicity Assay with L929 murine fibroblasts was analysed with Resazurin dye.

- ✓ **Easier Assay Scheduling**
- ✓ **Highly Reproducible & Reliable**
- ✓ **Alternative to Animal Testing**

**Cell Lines:**
- L-929 murine fibroblasts
- HepG2 human hepatoma

**Assay Reagents:**
- Resazurin
- XTT
- Suforhodamine B

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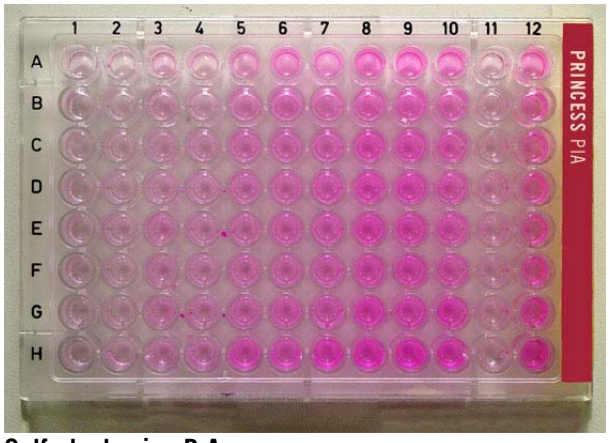
# PRINCESS® PIA - Instant Proliferation Assay

**PRINCESS® PIA** – the Instant Proliferation Assay was developed for the fast and reliable screening of new cytostatic drugs for cancer therapy.

Well characterized human tumor cell lines are frozen in microwell plates without toxic cryoprotectives and can be stored at -80°C for several months. The assay plates are ready-to-use after thawing. No passaging or washing of the cells is necessary.




**Sulforhodamine B Assay**

For routine proliferation assays various tumor cell lines from the NCI "In Vitro Cancer Screen" are prepared in Princess assay plates that can be used with common proliferation protocols.

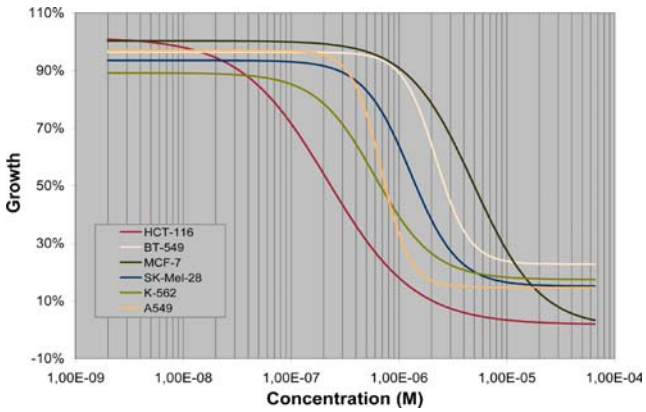



**Fig. 1:** Determination of IC50 value using Princess PIA Instant Proliferation Assay.

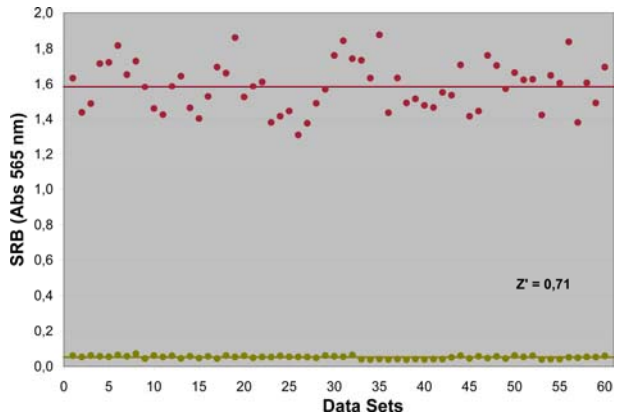



**Fig. 2:** Z'-Factor of Princess PIA - Instant Proliferation Assay with Hct-116 cells analysed with Sulforhodamine B.

- ✓ **Fast Cytostatic Drug Screening**
- ✓ **No Cell Expansion or Passaging**
- ✓ **Highly Reproducible & Reliable**

**Cell Lines:**
- SK-Mel-28 human melanoma
- MCF-7 human breast carcinoma
- A549 human lung carcinoma
- HCT-116 human colon carcinoma
- HepG2 human hepatoma
- K562 human leukaemia
- BT-549 human breast carcinoma

**Assay Reagents:**
- Sulforhodamine B (SRB)
- Resazurin
- XTT

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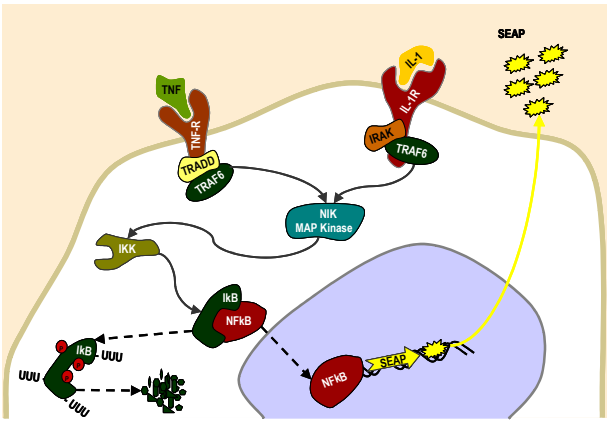
# PRINCESS® NINA - Instant NFκB Assay

**PRINCESS® NINA** – Instant NFκB Assay enables a fast and reliable screening for anti-inflammatory drugs or mediators of inflammation.

Recombinant reporter cells are frozen in micro-well plates and can be used immediately after thawing without passaging. No pre-cultivation or expansion of the cells is necessary.

The cells express Secreted Alkaline Phosphatase (SEAP) upon activation of NFκB signaling pathways. Detection of the reporter is very sensitive using chemoluminescent or fluorescent substrates. SEAP is secreted into the cell culture supernatant. Because the cells are not lysed, subsequent assays e.g. for cytotoxicity can performed in the same plate.




**Signaling Pathway of NFκB**

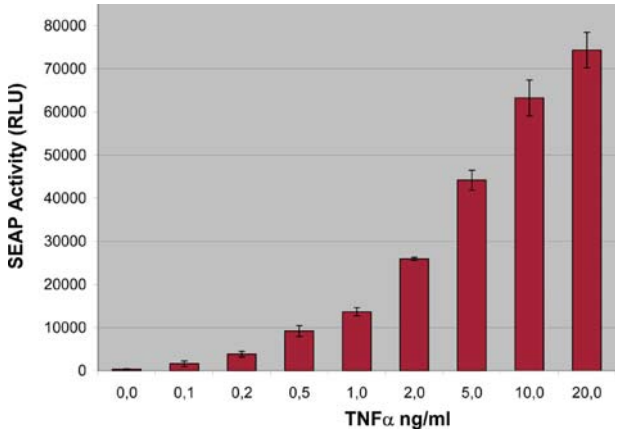



**Fig. 1:** Dynamic Range of Princess NINA – Instant NFκB Assay.

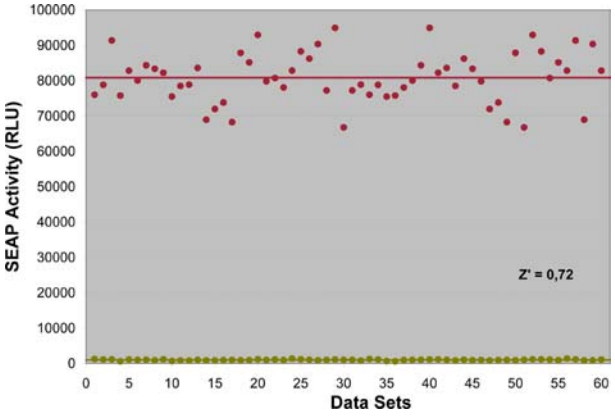



**Fig. 3:** Z'-Factor of Princess NINA - Instant NFκB Assay determined after stimulation with 10 ng TNFα

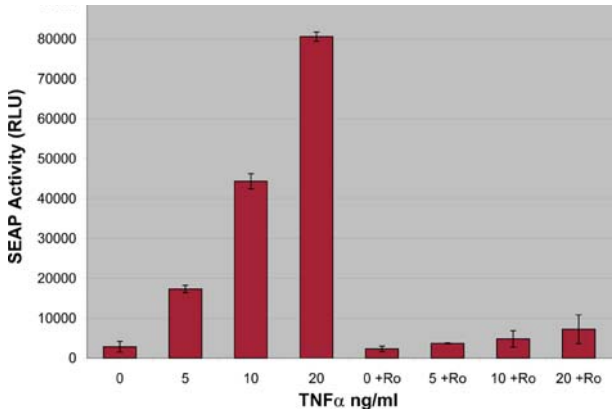



**Fig. 2:** Incubation of Princess NINA with Ro106-922 before stimulation with TNFα. The NFκB inhibitor Ro efficiently blocks the activation of SEAP expression.

- ✓ **No Cell Expansion or Passaging**
- ✓ **Fast and Sensitive Assay**
- ✓ **Reproducible Results**

**Cell Lines:** - A549-NFκB-SEAP*
**Assay Reagents:** - MUP (florescent substrate)
- CSPD® (chemoluminescent substrate)

*: Cell a genetically modified and have to be handled according to biosafety level S1.
CSPD® is a registered trademark of Tropix Inc. (Bedford, MA USA)

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