

# M65 EpiDeath® ELISA

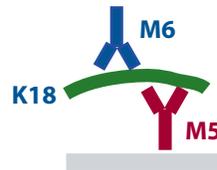
The dead cells still count™

**The M65 EpiDeath® ELISA is intended for the same applications as the M65® ELISA and represents a development of the PEVIVA biomarker concept. For Research Use Only.**

The M65® ELISA was introduced in 2004 and intended for the determination of total cell death of epithelial cells (Kramer et al., Cancer Res 64, 1751). The combined use of M65® ELISA and M30 Apoptosense® ELISA facilitates the determination of cell death mode (apoptosis or necrosis).

The M65 EpiDeath® ELISA is based on the same monoclonal antibodies as the M65® ELISA. To achieve full compatibility with PEVIVA M30 Apoptosense® ELISA, mAb M5 is used as capture antibody (mAb M6 is used as capture antibody in the M65® ELISA). Reaction buffers have also been slightly modified.

M65 EpiDeath® ELISA



M65® ELISA



## Similarities and differences between M65 EpiDeath® and M65® ELISA:

- M65 EpiDeath® ELISA offers an even better discrimination between normal controls and research samples from disease states that lead to increases in circulating keratin 18 (K18). This is due to an improvement of binding specificity and lower signals in normal controls.
- M65 EpiDeath® ELISA and M65® ELISA generate similar signals for samples that contain circulating K18 ( $r^2 = 0,84$  in the material shown in the figure). The main difference between the tests is that most samples that show values in the range 200–300 U/L in the M65® ELISA will show values of < 100 U/L in the M65 EpiDeath® ELISA.

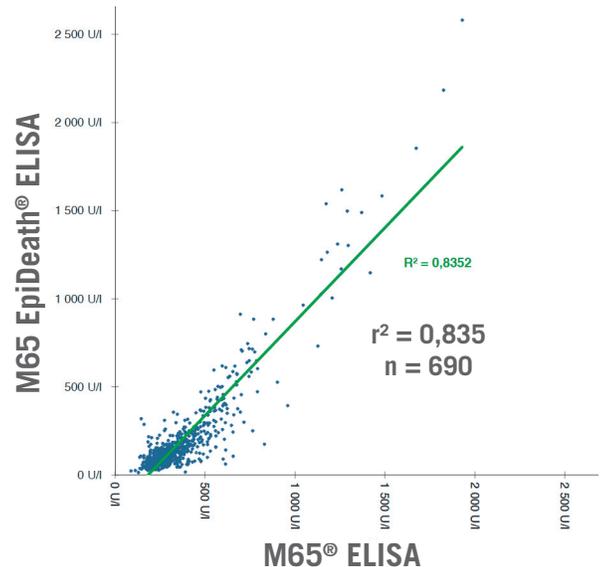
## Determining cell death mode using the M65 EpiDeath® and M30 Apoptosense® ELISAs

M65 EpiDeath® ELISA uses the same capture antibody as the M30 Apoptosense® ELISA, and “M30:M65 ratios” (see Kramer et al., Cancer Res 64, 1751) measured using the M30 Apoptosense® and M65 EpiDeath® ELISA are expected to reflect cell death modes. In some instances, samples will generate higher signals in the M30 Apoptosense® ELISA test than in the M65 EpiDeath® ELISA test, probably reflecting how epitopes are presented in the complexes.

Note that “M30:M65 ratios” are only meaningful for samples that contain elevated levels of K18 (i.e. > 300 U/L in the M65 EpiDeath® ELISA) (see Linder et al., Expert Reviews in Molecular Diagnostics 10, 353, 2010).

## Technical improvements:

The M65 EpiDeath® ELISA shows improved characteristics with regard to linearity/dilution and spiking recovery compared to the M65® ELISA.



M30 Apoptosense® ELISA, M65 EpiDEATH® ELISA, M65® ELISA, and M30 CytoDEATH™ are registered trademarks of VLVbio (Vivalavida AB).  
PEVIVA products are for research use only. See Pubmed for list of references.



800.526.5224 info@diapharma.com  
ML-00-00029REV02

