

NormaCurve: a SuperCurve-based method that simultaneously quantifies and normalizes Reverse Phase Protein Array data

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RAW DATA

Raw data correspond to relative intensities measured by MicroVigene software for each spot on each array. In raw data, all replicates and all dilutions steps can be found for each sample.

The following arrays are available:

00152292	Chk2 labeling
00152293	negative control (CTRL) array
00152294	Chk2 labeling
00152295	negative control (CTRL) array
00152296	Chk2 labeling
00152297	negative control (CTRL) array
00152298	Chk2 labeling
00152299	negative control (CTRL) array
00152300	Chk2 labeling
00152391	negative control (CTRL) array
00152287	Sypro Ruby total protein stain
00152288	Sypro Ruby total protein stain
00152289	Sypro Ruby total protein stain
00152290	Sypro Ruby total protein stain
00152291	Sypro Ruby total protein stain

Samples have been deposited in 15 2-fold serial dilutions (1, 1/2, 1/4, 1/8, ..., 1/16348), starting at 1 mg/ml.

For several extracts, starting concentrations of 0.8, 0.9, 1, 1.1 and 1.2 mg/ml were used, complemented or not with respectively 0.033, 0.038, 0.042, 0.046 and 0.05 ng/ml purified Chk2. The aim of these varying starting concentrations is to introduce a variability in the spotted amount of total protein, in order to test the ability of our models to correct for this.

All samples and all dilutions are present in 6 technical replicates per array.

For experimental details concerning the sample preparation and the array labeling, please refer to the publication.

Dissection of sample names:

L1X	Laemmli buffer (= protein extraction buffer) only
blank	No sample deposited
BSA	Bovine serum albumin

3T3, MCF10A, BT20, jurkat, T47D	cell line used
+SVF	grown in presence of fetal calf serum
-SVF	grown in absence of fetal calf serum (serum starved)
_Chk2	purified Chk2 has been added
_siRNA_Chk2-10_48h	short interfering RNA against Chk2 was transfected and cells were harvested 48h later. ¹
_siRNA_CTL_48h	control (nonsense) short interfering RNA was transfected and cells were harvested 48h later. ¹
_0.8 or 0.9 or 1 or 1.1 or 1.2	starting concentration (of dilution 1) in mg/ml
1, 1/2, 1/4, 1/8, ... 1/ 16348	dilution factor of the sample

¹ Please note that siRNA against Chk2 was found to be ineffective (no diminished Chk2 protein levels, neither in Western Blot nor in RPPA). These samples were therefore not taken into account in our publication.