

TABLE 1**Concentrations of Ras, Raf, MEK, and ERK**

ND, not defined; CHO, Chinese hamster ovary.

	This study		Huang and Ferrell (18) (oocytes)	Bhalla <i>et al.</i> (44) (ND)	Schoeberl <i>et al.</i> (15) (HeLa) ^a	Sasagawa <i>et al.</i> (17) (PC12)	Brightman and Fell (13) (PC12) ^b	Hatakeyama <i>et al.</i> (12) (CHO)
	HeLa	COS-7						
	μM		μM		μM		μM	
Ras	0.40	0.53	ND	0.20	1.6	0.10	0.033	0.12
Raf	0.013	0.0054	0.0030	0.20	0.0057	0.50	0.017	0.10
MEK	1.4	1.8	1.2	0.18	3.1	0.68	0.6	0.12
ERK	0.96	0.81	1.2	0.36	2.1	0.26	1.25	1.0

^a The concentration was calculated from the number of molecules/cell, assuming that the cell volume was 1.0 pl, as described in Ref. 15.^b This parameter set was used in the model reported by Yamada *et al.* (11).

11. Yamada, S., Taketomi, T., and Yoshimura, A. (2004) *Biochem. Biophys. Res. Commun.* **314**, 1113–1120
12. Hatakeyama, M., Kimura, S., Naka, T., Kawasaki, T., Yumoto, N., Ichikawa, M., Kim, J. H., Saito, K., Saeki, M., Shirouzu, M., Yokoyama, S., and Konagaya, A. (2003) *Biochem. J.* **373**, 451–463
13. Brightman, F. A., and Fell, D. A. (2000) *FEBS Lett.* **482**, 169–174
15. Schoeberl, B., Eichler-Jonsson, C., Gilles, E. D., and Muller, G. (2002) *Nat. Biotechnol.* **20**, 370–375
17. Sasagawa, S., Ozaki, Y., Fujita, K., and Kuroda, S. (2005) *Nat. Cell Biol.* **7**, 365–373
18. Huang, C. Y., and Ferrell, J. E., Jr. (1996) *Proc. Natl. Acad. Sci. U. S. A.* **93**, 10078–10083
44. Bhalla, U. S. (2004) *Biophys. J.* **87**, 745–753