

Name	Pathway	# per cell	Cells	Reference
PDGFR	RTK	90.000	NIH3T3 fibroblasts	(Vaziri and Faller, 1995)
EGFR1	RTK	20.000-200.000	Normal body tissue	(Todderud and Carpenter, 1989)
EGFR2	RTK	5.000-60.000	Human mammary epithelial cells **	(Burke <i>et al</i> , 2001)
InsulinR	RTK	7,000-250.000	3T3-L1 Adipocytes **	(Rosen <i>et al</i> , 1979)
IGFR1	RTK	2.800-1.200.000	Primary fibroblasts **	(Kawashima <i>et al</i> , 2005) (Prisco <i>et al</i> , 1997)
Grb2	RTK	23.000	Thymocytes	(Takaki <i>et al</i> , 1997)
Ras	MAPK	20.000-11.000.000 [400.000]	HeLa cells ** *** [3T3 fibroblasts]	(Ferrell, 1996) (Schoeberl <i>et al</i> , 2002) (Kaur <i>et al</i> , 2006)
Raf	MAPK	10.000	Cos cells	(Ferrell, 1996)
Mek	MAPK	360.000-20.000.000 [800.000] [1.800.000]	HeLa cells ** *** [CHO cells] [Rat 1 cells]	(Ferrell, 1996) (Schoeberl <i>et al</i> , 2002) (Legewie <i>et al</i> , 2007)
Erk	MAPK	750.000-20.000.000 [1.800.000] [2.700.000]	HeLa cells ** *** [CHO cells] [Rat 1 cells]	(Ferrell, 1996) (Schoeberl <i>et al</i> , 2002) (Legewie <i>et al</i> , 2007)
PI3K	PI3K	10.000	NIH3T3 fibroblasts	(Geering <i>et al</i> , 2007)
Protein Kinase B	PI3K	600.000	PC12 cells	(Suresh Babu <i>et al</i> , 2005)
PP1	misc	500.000	Skeletal muscle	(Brown and Kholodenko, 1999)
PP2A	misc	5.000.000 -20.000.000	Various primary tissues	(Sontag, 2001)
PP2B	misc	1.000.000-20.000.000	Brain **	(Brown <i>et al</i> , 1999)
PP2C	misc	20.000	Muscle	(Brown <i>et al</i> , 1999)
PTP1-B	misc	10.000	Placenta	(Brown <i>et al</i> , 1999)
SHP-1	misc	60.000-800.000	Thymocytes **	(Leon <i>et al</i> , 2002) (Altan-Bonnet and Germain, 2005)
CD45	TCR signaling	>100.000	Jurkat T cells	(Peyron <i>et al</i> , 1991)
TGFR	TGFβ	1.500-80.000	Swiss 3T3 fibroblasts **	(Wakefield <i>et al</i> , 1987)
Smad2	TGFβ	100.000-450.000	HaCaT keratinocytes **	(Clarke <i>et al</i> , 2006) (He <i>et al</i> , 2006)
Smad3	TGFβ	15.000-450.000	HaCaT keratinocytes **	(Clarke <i>et al</i> , 2006) (He <i>et al</i> , 2006) (Pierreux <i>et al</i> , 2000b)
Smad4	TGFβ	100.000-900.000	HaCaT keratinocytes **	(Clarke <i>et al</i> , 2006) (He <i>et al</i> , 2006)
Calmodulin	Ca ²⁺	5.000.000-10.000.000	PC12 cells **	(Johanson <i>et al</i> , 2000)

Bcl-2	Apoptosis	50.000	Periphal Blood lymphocytes	(Dragowska <i>et al</i> , 2000)
Apaf-1	Apoptosis	100.000-2.000.000	NCI cancer cell panel***	(Svingen <i>et al</i> , 2004)
XIAP	Apoptosis	36.000	THP-1 monocytic cells	(Bratton <i>et al</i> , 2001)
Pro-Caspase9	Apoptosis	5000-160.000 [12.000]	NCI cancer cell panel*** [293 cells]	(Svingen <i>et al</i> , 2004) (Stennicke <i>et al</i> , 1999)
Pro-Caspase8	Apoptosis	170.000-8.000.000 [18.000]	NCI cancer cell panel*** [Jurkat cells]	(Svingen <i>et al</i> , 2004) (Sun <i>et al</i> , 2002)
Pro-Caspase3	Apoptosis	0-1.600.000 [60.000-120.000]	NCI cancer cell panel*** [Jurkat cells]	(Svingen <i>et al</i> , 2004) (Sun <i>et al</i> , 2002) (Stennicke <i>et al</i> , 1999)
c-abl	DNA damage	250.000	NIH3T3 fibroblasts	(Etten <i>et al</i> , 1994)
CREB	cAMP	50.000	PC12 cells	(Hagiwara <i>et al</i> , 1993)
Protein Kinase A	cAMP	720.000	PC12 cells	(Hagiwara <i>et al</i> , 1993)
p300	cAMP	28.000	Jurkat T cells	(Hottiger <i>et al</i> , 1998)
IFN- γ receptor	Cytokine	25.000	A431 carcinoma cells	(Crouse and Mitchell, 1992)
Epo receptor	Cytokine	60.000	Endothelial cells	(Banerjee <i>et al</i> , 2000)
STAT2	Cytokine	150.000	Jurkat T cells	(Hottiger <i>et al</i> , 1998)
STAT3	Cytokine	750.000	Primary Mouse Hepatocytes	(Klingmuller <i>et al</i> , 2006)
RelA	NF-kB	125.000	Jurkat T cells	(Hottiger <i>et al</i> , 1998)
T cell receptor	Immune	30.000	Thymocytes	(Altan-Bonnet <i>et al</i> , 2005)
Lck	Immune	60.000	Thymocytes	(Altan-Bonnet <i>et al</i> , 2005)
ZAP70	Immune	1.200.000	Thymocytes	(Altan-Bonnet <i>et al</i> , 2005)
FC Receptor	Immune	700.000	Macrophage cell line	(Mellman and Unkeless, 1980)

* See also:

Alvis Brazma, Helen Parkinson, Thomas Schliitt and Mohammadreza Shojatalab: Basic Biology
(http://www.ebi.ac.uk/2can/biology/molecules_proteins5.html)

Robert D. Phair: Integrative Bioinformatics: Practical Kinetic Modeling of Large Scale Biological Systems
(<http://www.bioinformaticsservices.com/bis/resources/cybertext/chapter3.html>)

** If several cell lines have been measured, the cell line with maximum expression is given.

*** Since these are cancer cell lines, this data has to be interpreted with caution. If available, we have also included data from non-transformed cells in square brackets.