

Kinetworks™ Immunoblotting

Biological Consistency of EGF Responses

Cell Line Name	A431 Skin Epidermoid carcinoma	CaCo2 Colon Carcinoma	C2BBe1 ? Adeno- carcinoma	CO Ovary Endo- metrial	COA3 Ovary Endo- metrial	ishikawa Ovary Adeno- carcinoma	HTR8 Ovary Tropho- blastoma	U87MG-EGFR Brain Glio- blastoma	AVG	S.DEV.	N	
EGF Conc. (nM)	17	3	17	5	5	5	5	17				
Time (min)	10	10	10	5	5	5	5	10				
Number of Determinations	1 to 4	5	2	1	2	2	2	1				
Protein Name	Phospho-Site											
Erk2	T185+Y187	185	370	106	178	2450	77	8	-41	417	831	8
Erk1	T202+Y204	186	477	117	260	2100	81	-16	-45	395	709	8
MEK1/2	S217+S221	14	360	ND	-22	INCR	286	0*	-7	126	182	5
PKB α (Akt1)	S473	35	66	2	120	44	64	170	INCR	71	57	7
STAT3	S727	-17	131	ND	190	53	41	19	4	60	74	7
Raf1	S259	103	-17	ND	80	-45	148	-44	14	34	77	7
Rb	S807+S811	31	47	ND	0*	0*	0*	36	-6	27	23	4
p38 α MAPK	T180+Y182	INCR	-19	262	-46	-86	0	67	2	26	114	7
Adducin α	S726	9	43	ND	-6	-14	INCR	43	64	23	31	6
Rb	S780	39	62	ND	-52	0*	0*	56	-7	20	48	5
GSK3 β	S9	0	5	ND	47	0*	0*	0*	0*	17	26	3
Jun	S73	87	-15	ND	0*	0*	5	10	-1	17	40	5
PKC α/β 2	T638/T641	-17	56	ND	22	22	12	8	-25	11	27	7
NR1	S896	41	7	ND	ND	-10	47	-27	-6	9	29	6
PKC α	S657	-15	12	ND	116	14	-38	31	-60	9	57	7
JNK p46	T183+Y185	-59	115	-51	0*	0*	0	33	-26	2	65	6
GSK3 β	Y216	39	-42	ND	-26	0*	-8	6	34	1	32	6
GSK3 α	Y279	-19	21	ND	0*	-1	-21	-2	17	-1	18	6
JNK p38	T183+Y185	-1	-29	47	0*	0*	-30	-12	13	-2	29	6
CDK1/2	Y15	-31	ND	ND	-4	-46	26	-18	44	-5	34	6
Src	Y529	-2	-9	-45	0*	8	-46	24	20	-7	28	7
Adducin γ	S693	-13	-23	ND	-17	0*	0*	3	ND	-12	11	4
Src	Y418	0	-41	-56	0*	0*	0*	0*	37	-15	42	4
GSK3 α	S21	-40	-15	ND	0*	0*	0*	23	-40	-18	30	4
PKR	T451	-60	-32	0*	0*	0*	0*	0*	34	-19	48	3
CREB1	S133	-31	-75	ND	-36	-59	-14	-10	76	-21	49	7
PKB α (Akt1)	T308	0	-50	ND	INCR	0*	-16	INCR	ND	-22	26	3
PKC ϵ	S729	-100	-7	ND	0*	0*	-40	-18	49	-23	54	5
CDK1/2	T14+Y15	-56	10	-53	ND	ND	ND	ND	ND	-33	37	3
MEK2 human	T394	-30	ND	-45	ND	ND	ND	ND	ND	-38	11	2
FAK	Y576	-49	ND	-51	ND	ND	ND	ND	ND	-50	1	2
FAK	S722	-67	ND	-40	ND	ND	ND	ND	ND	-54	19	2

Percent Change from Untreated ND = Not Determined
Data from KiNET

