

Supplemental Methods

Primer Sequences for Quantitative RT-PCR

Primer		Sequence (5' to 3')
Murine Amphiregulin	Forward	GCCATTATGCAGCTGCTTTGGAGC
	Reverse	TGTTTTTCTTGGGCTTAATCACCT
Murine Betacellulin	Forward	CCCCAAGCAGTACAAGCATT
	Reverse	TGAACACCACCATGACCACT
Murine Epigenin	Forward	TGGGTCTTGACGCTGCTTTGTCTA
	Reverse	AAGCAGTAGCCGTCCATGTCAGAA
Murine Epiregulin	Forward	CACCGAGAAAGAAGGATGGA
	Reverse	GGGATCGTCTTCCATCTGAA
Murine Epithelial Growth Factor	Forward	GCAACTCCGTCCGGGCGAGGA
	Reverse	GAAGATGACTGTGGTCCCGGG
Murine Heparin Binding EGF	Forward	CTCCCACTGGATCCACAAAC
	Reverse	GGCATGGGTCTCTCTTCTTC
Murine Insulin Like Growth Factor I	Forward	AAAATCAGCAGCCTTCCAAC
	Reverse	GTCTCTGGTCCAGCTGTGGT
Murine Insulin Like Growth Factor II	Forward	GGCTTCTACTTCAGCAGGCCT
	Reverse	ACTCTTCCACGATGCC
Murine Insulin II	Forward	GTCAAGCAGCACCTTTGTGGTTCC
	Reverse	ACAATGCCACGCTTCTGCTG
Murine Transforming Growth Factor a	Forward	GTGGCTGCAGCACCTGCGCT
	Reverse	GATCAGCACACAGGTGATAATGAGG
Murine Akt1	Forward	GGCTGGCTGCACAAACG
	Reverse	GACTCTCGCTGATCCACATCCT
Murine Akt2	Forward	GTGATGCGAAGGAGGTCAT

Murine Akt3

Reverse

TGCTTGTGTCCTGTGGTG

Forward

CCTTCCAGACAAAAGACCGTTT

Reverse

CGCTCTCTCGACAAATGGAAA

Antibody Concentrations Use in Immunoblotting

Antibody	Dilution	Manufacturer	Catalog #
Rabbit anti-ARAF	1:1000	Santa Cruz Biotechnology	sc-408
Rabbit anti-AKT	1:1000	Cell Signaling	9272
Rabbit anti-phospho AKT (ser473)	1:1000	Cell Signaling	9271
Rabbit anti-AKT1	1:1000	Cell Signaling	2938
Rabbit anti-AKT2	1:1000	Cell Signaling	2964
Rabbit anti-AKT3	1:500	Cell Signaling	4059
Rabbit anti-b-ACTIN	1:1000	Santa Cruz Biotechnology	sc-1615-R
Mouse anti-BRAF	1:1000	Santa Cruz Biotechnology	sc-5284
Mouse anti-CRAF	1:1000	BD Biosciences	610152
Rabbit anti-ERK 1/2	1:1000	Cell Signaling	9102
Rabbit anti-phospho ERK 1/2	1:1000	Cell Signaling	9101
Mouse anti-Flag	1:200	Sigma	F1804
Rabbit anti-IGF1R	1:200	Santa Cruz Biotechnology	sc-713
Mouse anti-IGF2	1:500		
Rabbit anti-phospho IGF1R (Y1316)	1:500	Cell Signaling	6113S
Rabbit anti-phospho IGF1R (Y1161)	1:500	Abcam	ab39398

Generation of RCAS-BRAF^{V600E} (myc-tagged)

RCAS-BRAF^{V600E} (myc tag) was generated using PCR to add an XbaI restriction enzyme site and an EcoRI restriction enzyme site to the 5' and 3' ends respectively of a myc-tagged BRAF^{V600E} cDNA (gift of Richard Marais). The resulting PCR product was cloned into the pCR-BluntII-TOPO vector (Invitrogen, Carlsbad CA). The clone was then sequence verified, digested with XbaI and EcoRI, and ligated into an XbaI/EcoRI digested pYap6 vector. The cDNA fragment was then excised from pYap6 with PacI and PmeI and ligated into PacI/PmeI digested RCAS-X retroviral vector.