

Antibody	Host	For Detection Of:	Source	Application	Dilution/Concentration
anti-MAC1	Mouse	Macrophages	Abcam (ab22506)	IHC-P	1:1000
anti-CD4	Mouse	CD4+ T-cells	Abcam (ab57312)	IHC-P	1:100
anti-(HMB45 + MART1)	Mouse	Malignant Melanoma	Abcam (ab732)	IHC-P	1:100
anti-pAKT	Rabbit	Phosphorylated AKT Protein	Cell Signaling (4060)	WB, IHC-P	1:2000 (WB), 1:50(IHC)
anti-PTEN	Rabbit	PTEN Protein	Cell Signaling (9559)	WB, IHC-P	1:1000 (WB), 1:300(IHC)
anti-CDK4	Mouse	CDK4 Protein	Santa Cruz (sc260)	IHC-P	1:100
anti-p53	Rabbit	p53 Protein	Santa Cruz (sc-6243)	WB	1:500
anti-p53	Rabbit	p53 Protein	Leica (NCL-p53-CM5p)	IHC-P	1:500
anti-AKT	Rabbit	Total AKT Protein	Cell Signaling (6727)	WB	1:1000
anti-ERK(p44/42 MAPkinase)(137F5)	Rabbit	Total ERK Protein	Cell Signaling (4695)	WB	1:1000
anti-pERK	Rabbit	Phosphorylated ERK Protein	Abcam (ab50011)	WB	1:1000
anti-cyclinD1	Mouse	Cyclin D1 Protein	Cell Signaling (2926)	WB	1:2000
anti-CD31	Rabbit	Tumor Angiogenesis	Abcam (ab28364)	IHC-P	1:50
anti-PEP1 (TYRP1)	Rabbit	Melanocytic Cells	NIH (kindly provided by V. Hearing)	IHC-P	1:1000
anti-PCNA	Mouse	Proliferating Cells	Abcam (ab29)	IHC-P	1:6000
anti-B-actin	Rabbit	Loading Control	Bethyl Lab (A300-491A)	WB	1:5000
<i>IHC-P = Immunohistochemistry - Paraffin Sections WB = Western Blot</i>					

Supplementary Table S1: Antibodies used for experiments.

Gene	Primer Name	Sequence (5'-3')	Expected Bands
<i>K14-Cre</i>	TK139 (Forward)	ATTTGCCTGCATTACCGGTC	349 bp (<i>Cre</i> +), No amplification (<i>Cre</i> -)
	TK141 (Reverse)	ATCAACGTTTTGTTTTCCGG	
<i>Rxra</i>	UN128 (Forward)	CTCAAGTGAGGTGGACATTA	203 bp (<i>L2</i>), 110 bp (<i>L-</i>)
	WH231 (Reverse)	GAGCTATTGTGCCCTGGAAG	
	WH233 (<i>L-</i>)	GGAAGCCCAAGATGACCCTC	
<i>Cdk4</i>	BAB493 (Forward)	TGAAGTGCAGAATCTTCGGTGCAAA	440 bp (<i>WT</i>), 530 bp (<i>R24C</i>)
	BAB496 (Reverse)	CATTAGGAACTCTCACACTCTTGAG	

Supplementary Table S2: PCR primers used for genotyping of mouse lines.