

S1 Appendix

The nucleotide and amino acid sequences of modified p65/Rela (p65mut)

>NFkB_p65S276DS536A (p65mut)

CGGCCCCGCCCCGGGACCCTGACCATGGACGATCTGTTTCCCCTCATCTTTCCCTCAGAGCC
AGCCCAGGCTTCTGGGCCTTATGTGGAGATCATCGAACAGCCGAAGCAACGGGGCATGCGA
TTCCGCTATAAATGCGAGGGGCGCTCAGCGGGCAGTATTCTGGCGAGAGAAGCACAGATA
CCACCAAGACACACCCACCATCAAGATCAATGGCTACACAGGACCAGGAACAGTTCGAAT
CTCCCTGGTCACCAAGGATCCACCTACCGGCCTCATCCACATGAACTTGTGGGGAAGGACT
GCCGGGATGGCTACTATGAGGCTGACCTCTGCCAGACCCGAGTATCCATAGCTTCCAGAAC
CTGGGGATCCAGTGTGTGAAGAAGCGAGACCTGGAGCAAGCCATTAGCCAGCGAATCCAGA
CCAACAATAACCCCTTTCACGTTCTATAGAGGAGCAGCGCGGGGACTATGACTTGAATGCA
GTGCGCCTCTGCTTCCAGGTGACAGTGCGGGACCCAGCAGGCAGGCCCTCCTCCTGACCCC
TGTCCTCTCACATCCGATTTTTGATAACCGGGCCCCAACACTGCCGAGCTCAAGATCTGCC
GAGTAAACCGGAACTCTGGGAGCTGCCTCGGTGGGGATGAGATCTTCTTGTGTGCGACAAG
GTGCAGAAAGAAGACATTGAGGTGTATTTACGGGACCAGGCTGGGAGGCACGAGGCTCCT
TTTCTCAAGCTGATGTGCATCGGCAAGTGGCCATTGTGTTCCGGACTCCTCCGTACGCCGACC
CCAGCCTCCAGGCTCCTGTTTCAGTCTCCATGCAGCTACGGCGGCCT **GAT** GATCGCGAGCTC
AGTGAGCCCATGGAGTTCAGTACTTGCCAGACACAGATGATCGCCACCGGATTGAAGAGA
AGCGCAAAGGACCTATGAGACCTTCAAGAGTATCATGAAGAAGAGTCCTTTCAATGGACC
AACTGAACCCCGGCCTCCAACCCGGCGTATTGCTGTGCCTACCCGAAACTCAACTTCTGTCC
CCAAGCCAGCCCCGCAGCCCTACACCTTCCCAGCATCCCTCAGCACCATCAACTTTGATGAG
TTTTCCCCCATGCTGTTACCATCAGGGCAGATCTCAAACCAGGCCCTGGCCTTGGCACCGTCC
TCTGCCCCAGTCCTTGCCAGACCATGGTCCCTTCCCTCAGCCATGGTACCTCTGGCTCAGCCC
CCAGCTCCTGCCCCAGTTCTAACCCCGGGTCTCCTCCCCAGTCCCTGTCTGCACCTGTTCCAAAG
AGCACCCAGGCTGGGGAAGGCACGCTGTCGGAAGCCCTGCTGCACCTGCAGTTTGTATGCTG
ATGAAGACTTGGGGGCCTTGCTTGGCAACAGCACAGACCCAGGAGTGTTCACAGACCTGGC
ATCTGTGGACAACTCAGAGTTTCAGCAGCTCCTGAACCAGGGTGTGTCCATGTCTCACTCCA
CAGCTGAGCCCATGCTGATGGAGTACCCTGAAGCTATAACTCGCCTGGTGACAGGGTCCCAG
AGGCCCTGACCCAGCTCCCACACCCCTGGGGACCTCGGGGCTTCCCAATGGTCTCTCAGG
AGATGAAGACTTCTCC **GCC** ATTGCGGACATGGACTTCTCTGCTCTTTGAGTCAGATCAGCT
CCTAAGGTGCTGACAGCGACCCTGCTCAGA

>The amino acid sequence of modified p65/Rela (p65mut)

MDDLFLIFPSEPAQASGPYVEIIEQPKQRGMRFRYKCEGRSAGSIPGERSTDTTKTHPTIKINGYT
GPGTVRISLVTKDPPHRPHPHLVGKDCRDGYEADLCPDRSIHSFQNLGIQCVKKRDLEQAISQ
RIQTNNNPFHVPIEEQRGDYDLNAVRLCFQVTVRDPAGRPLLLTPVLSHPIFDNRAPNTAELKICR
VNRNSGSCLGGDEIFLLCDKVQKEDIEVYFTGPGWEARGSFQADVHRQVAIVFRTPPYADPSLQ
APVRVSMQLRRP **D** DRELSEPMEFQYLPDTPDRHRIEKRKRKYETFKSIMKKSPFNPTPRPPT
RRIAVPTRNSTSVPKPAPQPYTFPASLSTINFDEFSPMLLPSGQISNQALALAPSSAPVLAQTMVPS
SAMVPLAQPPAPAPVLTGPPQSLAPVPKSTQAGEGTLSEALLHLQFDADEDLGALLGNSTDPG
VFTDLASVDNSEFQQLLNQGVSMHSTAEPMLMEYPEAITRLVTGSQRPPDPAPTPLGTSGLPNG
LSGDEDEF **A** IADMDFSALLSQISS

S2 Appendix

Representative confocal images of beta-III Tubulin (Tubb3)-labeled ganglion cell layers (green) in flat-mounted retinas acquired at the center, middle, and peripheral regions in control (no surgery) and ONC retinas 14 days after surgery

