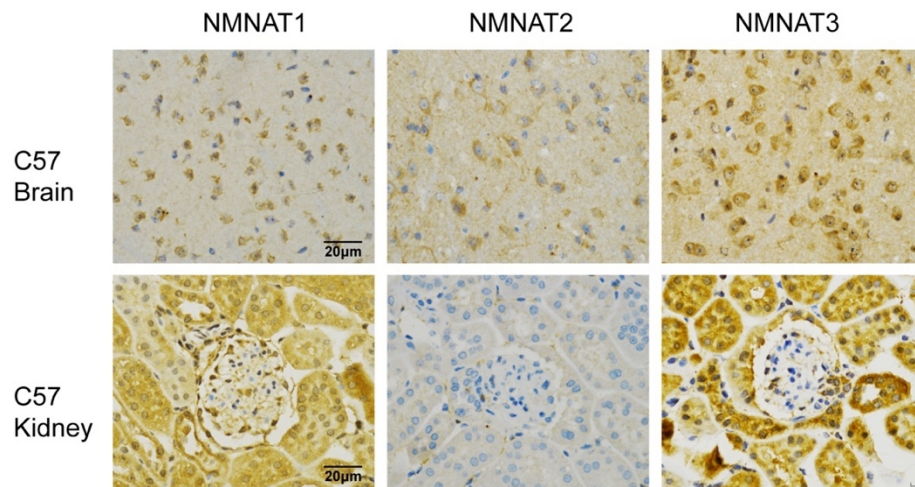


Supplementary Materials



Supplementary 1. The expression of NMNATs in mice kidney and brain. Immunohistochemical staining was used to detect the expression and localization of NMNATs in brain and kidney of male C57BL/6J mice. 20×10 magnification by light microscope. The scale bar=20μm.

The sequence of NMNAT1:

GATTACAAGGATGACGACGATAAGGAAAATTCCGAGAAGACTGAAGTGGTTCCTTGCTTGT
GGTTCATTCAATCCCATCACCAACATGCACCTCAGGTTGTTTGAGCTGGCCAAGGACTACATGA
ATGGAACAGGAAGGTACACAGTTGTCAAAGGCATCATCTCTCCTGTTGGTGATGCCTACAAGA
AGAAAGGACTCATTCCTGCCTATCACCGGGTCATCATGGCAGAACTTGCTACCAAGAATTCTAA
ATGGGTGGAAGTTGATACATGGGAAAGTCTTCAGAAAGGAGTGGAAAGAGACTCTGAAGGTGCT
AAGACACCATCAAGAGAAATTGGAGGCTAGTGACTGTGATCACCAGCAGAACTCACCTACTCT
AGAAAGGCCTGGAAGGAAGAGGAAGTGGACTGAAACACAAGATTCTAGTCAAAAGAAATCCC
TAGAGCCAAAAACAAAAGCTGTGCCAAAGGTCAAGCTGCTGTGTGGGGCAGATTTATTGGAGT
CCTTTGCTGTTCCCAATTTGTGGAAGAGTGAAGACATCACCCAAATCGTGGCCAACTATGGGCT
CATATGTGTTACTCGGGCTGGAATGATGCTCAGAAGTTTATCTATGAATCGGATGTGCTGTGG
AAACACCGGAGCAACATTCACGTGGTGAATGAATGGATCGCTAATGACATCTCATCCACAAAA
ATCCGGAGAGCCCTCAGAAGGGGCCAGAGCATTGCTACTTGGTACCAGATCTTGTCCAAGAA
TACATTGAAAAGCATAATTTGTACAGCTCTGAGAGTGAAGACAGGAATGCTGGGGTCATCCTG
GCCCCTTGCAGAGAAACACTGCAGAAGCTAAGACATAG

The sequence of NAMPT:

GATTACAAGGATGACGACGATAAGAATCCTGCGGCAGAAGCCGAGTTCAACATCCTCCTGGCC
ACCGACTCCTACAAGTTACTCACTATAAACAATATCCACCCAACACAAGCAAAGTTTATTCCT
ACTTTGAATGCCGTGAAAAGAAGACAGAAAACCTCAAATTAAGGAAGGTGAAATATGAGGAA
ACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAAGGTAAAGTAGTAACCAAAG
AGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTCCAAGATGATGTCTTTAATGAAA
AGGGATGGAACATACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAATAAAAGCTGTTCC
TGAGGGCTTTGTCATTCCAGAGGAAATGTTCTCTTCACGGTGGAAAACACAGATCCAGAGTGT
TACTGGCTTACAAATTGGATTGAGACTATTCTTGTTTCAGTCCTGGTATCCAATCACAGTGGCCAC

AAATTCTAGAGAGCAGAAGAAAATATTGGCCAAATATTTGTTAGAACTTCTGGTAACTTAGAT
GGTCTGGAATACAAGTTACATGATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCA
TAGGAGCATCTGCTCACTTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGCTCTAAT
TAAAAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAACACAGT
ACCATAACAGCTTGGGGGAAAGACCATGAAAAAGATGCTTTTGAACATATTGTAACACAGTTTT
CATCAGTGCCTGTATCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATG
GGGTGAAGATCTAAGACATTTAATAGTATCAAGAAGTACACAGGCACCACTAATAATCAGACC
TGATTCTGGAAACCCTCTTGACACTGTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAGTTTCCTG
TACTGAGAACTCAAAGGGTTACAAGTTGCTGCCACCTTATCTTAGAGTTATTCAAGGGGATGG
AGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAAATGTGGAGTATTGA
AAATATTGCCTTCGGTTCTGGTGGAGGTTTGCTACAGAAGTTGACAAGAGATCTCTTGAATTGTT
CCTTCAAGTGTAGCTATGTTGTAACATAATGGCCTTGGGATTAACGTCTTCAAGGACCCAGTTGCT
GATCCCAACAAAAGGTCCAAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTT
GTTACACTGGAGGAAGGAAAAGGAGACCTTGAGGAATATGGTCAGGATCTTCTCCATACTGTCT
TCAAGAATGGCAAGGTGACAAAAAGCTATTCATTTGATGAAATAAGAAAAAATGCACAGCTGA
ATATTGAACTGGAAGCAGCACATCATTAG

All cDNAs were synthesized and detected by a sequencing company (GENEWIZ, Suzhou, China)