

Supplementary material

Table S1:

TLR4 positive cells of CA3 (Immunohistochemical staining analysis)						
Groups	N	Mean value	standard deviation	standard error	95% confidence interval of the mean	
					lower limits	upper limits
sham	5	58.600000000000000	2.792848008753788	1.248999599679679	55.132221175075350	62.067778824924650
NS	5	77.600000000000000	7.300684899377593	3.264965543462902	68.535002398212970	86.664997601787020
pshRNA	5	47.200000000000000	3.114482300479487	1.392838827718412	43.332859454451786	51.067140545548220
pshRNA + US	5	41.200000000000000	2.588435821108956	1.157583690279022	37.986032429268010	44.413967570732000
pshRNA + MBs + US	5	31.000000000000000	3.535533905932738	1.581138830084190	26.610054834574584	35.389945165425420
Total	25	51.120000000000000	16.756391815264603	3.351278363052921	44.203301406880420	58.036698593119574
Analysis of variance						
1						
		Sum of squares	df	Mean squared	F	Significance
Between groups		6378.640	4	1594.660	88.592	0.000
Within the group		360.000	20	18.000		
Total		6738.640	24			
Multiple comparisons						
	(I) 1	(J) 1	Average difference (I-J)	Standard error	Significance	95% Confidence interval
						Lower limitsUpper limits
LSD	sham	NS	−18.999999999999993*	2.683281572999748	0.000	−24.597227279999284−13.402772720000701
		pshRNA	11.399999999999999*	2.683281572999748	0.000	5.80277272000070616.997227279999290
		pshRNA + US	17.400000000000000*	2.683281572999748	0.000	11.80277272000070722.997227279999290
		pshRNA + MBs + US	27.600000000000000*	2.683281572999748	0.000	22.00277272000071033.197227279999300

(Continued)

Table S1: Continued

Multiple comparisons							
(I) 1	(J) 1	Average difference (I-J)	Standard error	Signific- ance	95% Confidence interval		
					Lower limits	Upper limits	
Tamhane	NS	sham	18.99999999999993*	2.683281572999748	0.000	13.402772720000701	24.597227279999284
		pshRNA	30.39999999999990*	2.683281572999748	0.000	24.802772720000700	35.997227279999290
		pshRNA + US	36.39999999999990*	2.683281572999748	0.000	30.802772720000700	41.997227279999290
		pshRNA + MBs + US	46.59999999999994*	2.683281572999748	0.000	41.002772720000700	52.197227279999290
	pshRNA	sham	-11.39999999999999*	2.683281572999748	0.000	-16.997227279999290	-5.802772720000706
		NS	-30.39999999999990*	2.683281572999748	0.000	-35.997227279999290	-24.802772720000700
		pshRNA + US	6.000000000000000*	2.683281572999748	0.037	.402772720000708	11.597227279999291
		pshRNA + MBs + US	16.200000000000003*	2.683281572999748	0.000	10.602772720000711	21.797227279999294
	pshRNA + US	sham	-17.400000000000000*	2.683281572999748	0.000	-22.997227279999290	-11.802772720000707
		NS	-36.39999999999990*	2.683281572999748	0.000	-41.997227279999290	-30.802772720000700
		pshRNA	-6.000000000000000*	2.683281572999748	0.037	-11.597227279999291	-0.402772720000708
	pshRNA + MBs + US	pshRNA + MBs + US	10.200000000000003*	2.683281572999748	0.001	4.602772720000711	15.797227279999294
		sham	-27.600000000000000*	2.683281572999748	0.000	-33.197227279999300	-22.002772720000710
		NS	-46.59999999999994*	2.683281572999748	0.000	-52.197227279999290	-41.002772720000700
		pshRNA	-16.200000000000003*	2.683281572999748	0.000	-21.797227279999294	-10.602772720000711
	pshRNA + MBs + US	pshRNA + US	-10.200000000000003*	2.683281572999748	0.001	-15.797227279999294	-4.602772720000711
		sham	-18.99999999999993*	3.495711658589707	0.026	-35.309977816444470	-2.690022183555509
		pshRNA	11.39999999999999*	1.870828693386970	0.003	4.231231348248572	18.568768651751427
		pshRNA + US	17.400000000000000*	1.702938636592640	0.000	10.888108041009780	23.911891958990218
		pshRNA + MBs + US	27.600000000000000*	2.014944167960989	0.000	19.766463653307138	35.433536346692870
	NS	sham	18.99999999999993*	3.495711658589707	0.026	2.690022183555509	35.309977816444470
		pshRNA	30.39999999999990*	3.549647869859770	0.002	14.305089644732195	46.494910355267790
		pshRNA + US	36.39999999999990*	3.464101615137755	0.001	19.934160895679410	52.865839104320570
		pshRNA + MBs + US	46.59999999999994*	3.627671429443411	0.000	30.720274559151516	62.479725440848470

(Continued)

Table S1: Continued

Multiple comparisons						
(I) 1	(J) 1	Average difference (I-J)	Standard error	Significance	95% Confidence interval	
					Lower limits	Upper limits
pshRNA	sham	-11.399999999999999*	1.870828693386970	0.003	-18.568768651751427	-4.231231348248572
	NS	-30.399999999999999*	3.549647869859770	0.002	-46.494910355267790	-14.305089644732195
	pshRNA + US	6.000000000000000	1.811077027627483	0.106	-.991949907294031	12.991949907294032
	pshRNA + MBs + US	16.200000000000003*	2.107130750570548	0.001	8.114276074445538	24.285723925554468
pshRNA + US	sham	-17.400000000000000*	1.702938636592640	0.000	-23.911891958990218	-10.888108041009780
	NS	-36.399999999999999*	3.464101615137755	0.001	-52.865839104320570	-19.934160895679410
	pshRNA	-6.000000000000000	1.811077027627483	0.106	-12.991949907294032	.991949907294031
	pshRNA + MBs + US	10.200000000000003*	1.959591794226542	0.011	2.480976160975501	17.919023839024504
pshRNA + MBs + US	sham	-27.600000000000000*	2.014944167960989	0.000	-35.433536346692870	-19.766463653307138
	NS	-46.599999999999994*	3.627671429443411	0.000	-62.479725440848470	-30.720274559151516
	pshRNA	-16.200000000000003*	2.107130750570548	0.001	-24.285723925554468	-8.114276074445538
	pshRNA + US	-10.200000000000003*	1.959591794226542	0.011	-17.919023839024504	-2.480976160975501
1						
1				A Subset of alpha = 0.05		
				4	5	
Student-Newman-Keuls multiple comparisons ^a		pshRNA + MBs + US				
		pshRNA + US				
		pshRNA				
		sham		58.600000000000000		
		NS				77.600000000000000
		Significance		1.000		1.000

*Differences in means are significant at the 0.05 level. Will display the mean of the group in a homogeneous subset.^aUse Harmonic Mean Sample Size = 5.000.

Table S2:

Relative TLR4 of express of CA3 (Western blot analysis)							
Groups	N	Mean value	standard deviation	standard error	95% confidence interval of the mean		
					lower limits	upper limits	
sham	5	1.000000000000000	0.000000000000000	0.000000000000000	1.000000000000000	1.000000000000000	
NS	5	2.296397011391140	0.473007859995542	0.211535545768347	1.709080180767269	2.883713842015012	
pshRNA	5	1.198926826785087	0.260789340756725	0.116628538747879	0.875114091252168	1.522739562318007	
pshRNA + US	5	0.666181748277171	0.257281118112274	0.115059613885239	0.346725046499550	0.985638450054791	
pshRNA + MBs + US	5	0.349880449324186	0.166336271437537	0.074387842011638	0.143346689484747	0.556414209163624	
Total		25	1.102277207155517	0.723200509488522	0.144640101897704	0.803754708895134	
1.400799705415900							
Analysis of variance							
1							
Between groups	Sum of squares		df	Mean squared	F	b	
within the group	11.010		4	2.753	35.690	0.000	
	1.542		20	0.077			
Total	12.552		24				
Multiple comparisons							
(I) 1	(J) 1	Average difference (I-J)	standard error	signifi- cance	95% Confidence interval		
					lower limits	upper limits	
LSD	sham	NS	−1.296397011391140*	0.175638001537875	0.000	−1.662771462549959	−0.930022560232322
	pshRNA		−0.198926826785087	0.175638001537875	0.271	−0.565301277943906	0.167447624373731
	pshRNA + US		0.333818251722829	0.175638001537875	0.072	−0.032556199435989	0.700192702881648
	pshRNA + MBs + US		0.650119550675814*	0.175638001537875	0.001	0.283745099516996	1.016494001834633

(Continued)

Table S2: Continued

Multiple comparisons							
(I) 1	(J) 1	Average difference (I-J)	standard error	signifi- cance	95% Confidence interval		
					lower limits	upper limits	
Tamhane	NS	sham	1.296397011391140*	0.175638001537875	0.000	0.930022560232322	1.662771462549959
		pshRNA	1.097470184606053*	0.175638001537875	0.000	0.731095733447235	1.463844635764871
		pshRNA + US	1.630215263113970*	0.175638001537875	0.000	1.263840811955151	1.996589714272788
		pshRNA + MBs + US	1.946516562066955*	0.175638001537875	0.000	1.580142110908136	2.312891013225773
	pshRNA	sham	0.198926826785087	0.175638001537875	0.271	-0.167447624373731	0.565301277943906
		NS	-1.097470184606053*	0.175638001537875	0.000	-1.463844635764871	-0.731095733447235
		pshRNA + US	0.532745078507917*	0.175638001537875	0.007	0.166370627349098	0.899119529666735
		pshRNA + MBs + US	0.849046377460902*	0.175638001537875	0.000	0.482671926302083	1.215420828619720
	pshRNA + US	sham	-0.333818251722829	0.175638001537875	0.072	-0.700192702881648	.032556199435989
		NS	-1.630215263113970*	0.175638001537875	0.000	-1.996589714272788	-1.263840811955151
		pshRNA	-0.532745078507917*	0.175638001537875	0.007	-0.899119529666735	-0.166370627349098
		pshRNA + MBs + US	0.316301298952985	0.175638001537875	0.087	-0.050073152205833	0.682675750111803
	pshRNA + MBs + US	sham	-0.650119550675814*	0.175638001537875	0.001	-1.016494001834633	-0.283745099516996
		NS	-1.946516562066955*	0.175638001537875	0.000	-2.312891013225773	-1.580142110908136
		pshRNA	-0.849046377460902*	0.175638001537875	0.000	-1.215420828619720	-0.482671926302083
		pshRNA + US	-0.316301298952985	0.175638001537875	0.087	-0.682675750111803	.050073152205833
Sham	NS	NS	-1.296397011391140*	0.211535545768347	0.035	-2.472988043378227	-0.119805979404054
		pshRNA	-0.198926826785087	0.116628538747879	0.832	-0.847631479547262	0.449777825977087
		pshRNA + MBs + US	0.333818251722829	0.115059613885239	0.363	-0.306159816027175	0.973796319472834
		NS	0.650119550675814*	0.074387842011638	0.009	0.236363708924220	1.063875392427408
	NS	sham	1.296397011391140*	0.211535545768347	0.035	0.119805979404054	2.472988043378227
		pshRNA	1.097470184606053*	0.241556418200755	0.035	0.077947592677843	2.116992776534263
		pshRNA + US	1.630215263113970*	0.240802827788489	0.004	0.610042140263328	2.650388385964612
		pshRNA + MBs + US	1.946516562066955*	0.224233891645890	0.003	0.878613164315598	3.014419959818311

(Continued)

Table S2: Continued

Multiple comparisons						
(I) 1	(J) 1	Average difference (I-J)	standard error	signifi- cance	95% Confidence interval	
					lower limits	upper limits
pshRNA	sham	0.198926826785087	0.116628538747879	0.832	−0.449777825977087	0.847631479547262
	NS	−1.097470184606053*	0.241556418200755	0.035	−2.116992776534263	−0.077947592677843
	pshRNA + US	0.532745078507917	0.163832020062886	0.111	−0.092534914941883	1.158025071957717
	pshRNA + MBs + US	0.849046377460902*	0.138332089876550	0.005	0.287245091552980	1.410847663368824
pshRNA + US	sham	−0.333818251722829	0.115059613885239	0.363	−0.973796319472834	0.306159816027175
	NS	−1.630215263113970*	0.240802827788489	0.004	−2.650388385964612	−0.610042140263328
	pshRNA	−0.532745078507917	0.163832020062886	0.111	−1.158025071957717	0.092534914941883
	pshRNA + MBs + US	0.316301298952985	0.137011918410658	0.433	−0.238298136270600	0.870900734176570
pshRNA + MBs + US	sham	−0.650119550675814*	0.074387842011638	0.009	−1.063875392427408	−0.236363708924220
	NS	−1.946516562066955*	0.224233891645890	0.003	−3.014419959818311	−0.878613164315598
	pshRNA	−0.849046377460902*	0.138332089876550	0.005	−1.410847663368824	−0.287245091552980
	pshRNA + US	−0.316301298952985	0.137011918410658	0.433	−0.870900734176570	0.238298136270600
Homogeneous subset						
1						
1		N	A subset of alpha = 0.05			
			1	2	3	
Student-Newman-Keuls multiple comparisons	pshRNA + MBs + US	5	0.349880449324186			
	pshRNA + US	5	0.666181748277171	0.666181748277171		
	sham	5		1.0000000000000000	1.0000000000000000	
	pshRNA	5			1.198926826785087	
	NS	5				
	significance		0.087	0.072	0.271	

(Continued)

Table S2: Continued

	1	
	1	A subset of alpha = 0.05
		4
Student-Newman-Keuls multiple comparisons ^a	pshRNA + MBs + US	
	pshRNA + US	
	sham	
	pshRNA	
	NS	2.296397011391140
	significance	1.000

*. Differences in means are significant at the 0.05 level.

The average value of the group in a homogeneous subset is displayed. ^aUse the harmonic mean sample size = 5.000.