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| **Comparison of Escape Latency** | | | |
| **Tukey's multiple comparisons test** | **Significant** | **Summary** | **Adjusted P Value** |
| day1 |  |  |  |
| C57 vs. C57+sh-SIRT4 | No | ns | >0.9999 |
| C57 vs. APP/PS1 | No | ns | >0.9999 |
| C57 vs. APP/PS1+sh-SIRT4 | No | ns | >0.9999 |
| C57 vs. APP/PS1+sh-NC | No | ns | >0.9999 |
| C57+sh-SIRT4 vs. APP/PS1 | No | ns | >0.9999 |
| C57+sh-SIRT4 vs. APP/PS1+sh-SIRT4 | No | ns | >0.9999 |
| C57+sh-SIRT4 vs. APP/PS1+sh-NC | No | ns | >0.9999 |
| APP/PS1 vs. APP/PS1+sh-SIRT4 | No | ns | >0.9999 |
| APP/PS1 vs. APP/PS1+sh-NC | No | ns | >0.9999 |
| APP/PS1+sh-SIRT4 vs. APP/PS1+sh-NC | No | ns | >0.9999 |
|  |  |  |  |
| day2 |  |  |  |
| C57 vs. C57+sh-SIRT4 | No | ns | >0.9999 |
| C57 vs. APP/PS1 | No | ns | >0.9999 |
| C57 vs. APP/PS1+sh-SIRT4 | No | ns | >0.9999 |
| C57 vs. APP/PS1+sh-NC | No | ns | >0.9999 |
| C57+sh-SIRT4 vs. APP/PS1 | No | ns | >0.9999 |
| C57+sh-SIRT4 vs. APP/PS1+sh-SIRT4 | No | ns | >0.9999 |
| C57+sh-SIRT4 vs. APP/PS1+sh-NC | No | ns | >0.9999 |
| APP/PS1 vs. APP/PS1+sh-SIRT4 | No | ns | >0.9999 |
| APP/PS1 vs. APP/PS1+sh-NC | No | ns | >0.9999 |
| APP/PS1+sh-SIRT4 vs. APP/PS1+sh-NC | No | ns | >0.9999 |
|  |  |  |  |
| day3 |  |  |  |
| C57 vs. C57+sh-SIRT4 | No | ns | >0.9999 |
| C57 vs. APP/PS1 | No | ns | >0.9999 |
| C57 vs. APP/PS1+sh-SIRT4 | No | ns | 0.4456 |
| C57 vs. APP/PS1+sh-NC | No | ns | 0.9998 |
| C57+sh-SIRT4 vs. APP/PS1 | No | ns | >0.9999 |
| C57+sh-SIRT4 vs. APP/PS1+sh-SIRT4 | No | ns | 0.4456 |
| C57+sh-SIRT4 vs. APP/PS1+sh-NC | No | ns | 0.9998 |
| APP/PS1 vs. APP/PS1+sh-SIRT4 | No | ns | 0.4456 |
| APP/PS1 vs. APP/PS1+sh-NC | No | ns | 0.9998 |
| APP/PS1+sh-SIRT4 vs. APP/PS1+sh-NC | No | ns | 0.557 |
|  |  |  |  |
| day4 |  |  |  |
| C57 vs. C57+sh-SIRT4 | No | ns | 0.5968 |
| C57 vs. APP/PS1 | Yes | \* | 0.0316 |
| C57 vs. APP/PS1+sh-SIRT4 | No | ns | 0.7759 |
| C57 vs. APP/PS1+sh-NC | Yes | \* | 0.0316 |
| C57+sh-SIRT4 vs. APP/PS1 | Yes | \*\*\* | 0.0003 |
| C57+sh-SIRT4 vs. APP/PS1+sh-SIRT4 | No | ns | 0.9983 |
| C57+sh-SIRT4 vs. APP/PS1+sh-NC | Yes | \*\*\* | 0.0003 |
| APP/PS1 vs. APP/PS1+sh-SIRT4 | Yes | \*\*\* | 0.0008 |
| APP/PS1 vs. APP/PS1+sh-NC | No | ns | >0.9999 |
| APP/PS1+sh-SIRT4 vs. APP/PS1+sh-NC | Yes | \*\*\* | 0.0008 |
|  |  |  |  |
| day5 |  |  |  |
| C57 vs. C57+sh-SIRT4 | No | ns | 0.3464 |
| C57 vs. APP/PS1 | Yes | \*\*\* | 0.0001 |
| C57 vs. APP/PS1+sh-SIRT4 | No | ns | 0.9988 |
| C57 vs. APP/PS1+sh-NC | Yes | \*\*\* | 0.0001 |
| C57+sh-SIRT4 vs. APP/PS1 | Yes | \*\*\*\* | <0.0001 |
| C57+sh-SIRT4 vs. APP/PS1+sh-SIRT4 | No | ns | 0.5092 |
| C57+sh-SIRT4 vs. APP/PS1+sh-NC | Yes | \*\*\*\* | <0.0001 |
| APP/PS1 vs. APP/PS1+sh-SIRT4 | Yes | \*\*\*\* | <0.0001 |
| APP/PS1 vs. APP/PS1+sh-NC | No | ns | >0.9999 |
| APP/PS1+sh-SIRT4 vs. APP/PS1+sh-NC | Yes | \*\*\*\* | <0.0001 |

\*P<0.05; \*\*\* P<0.001; \*\*\*\* P<0.0001