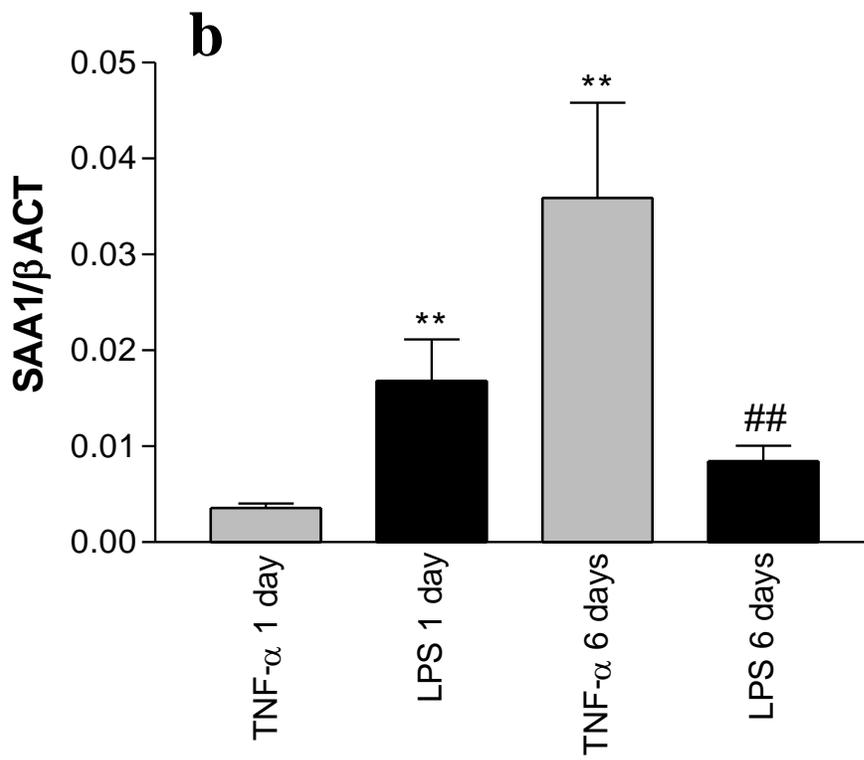
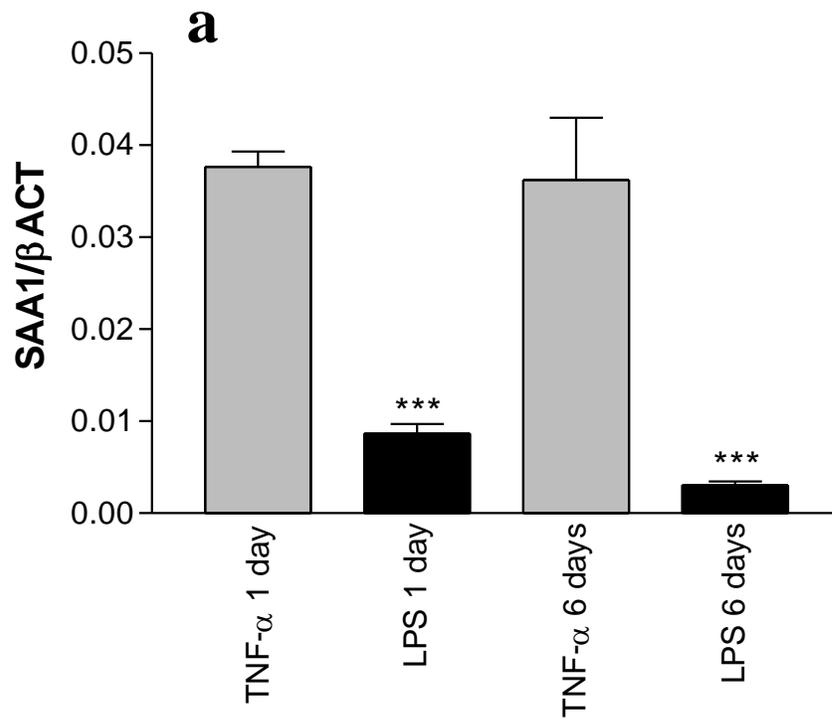


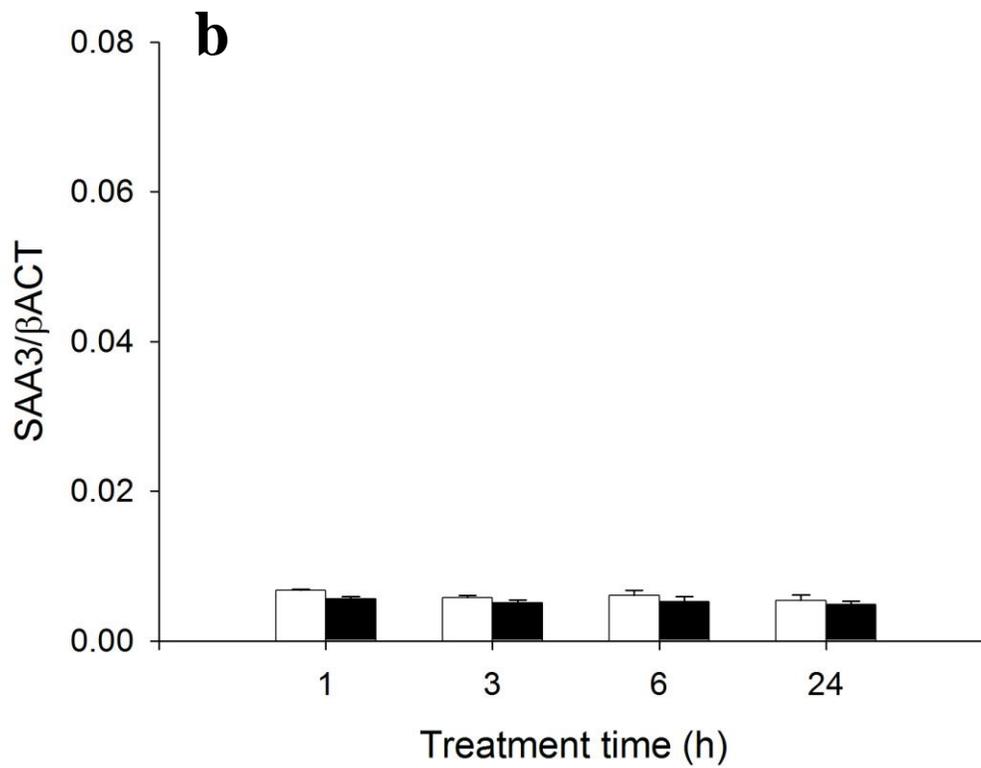
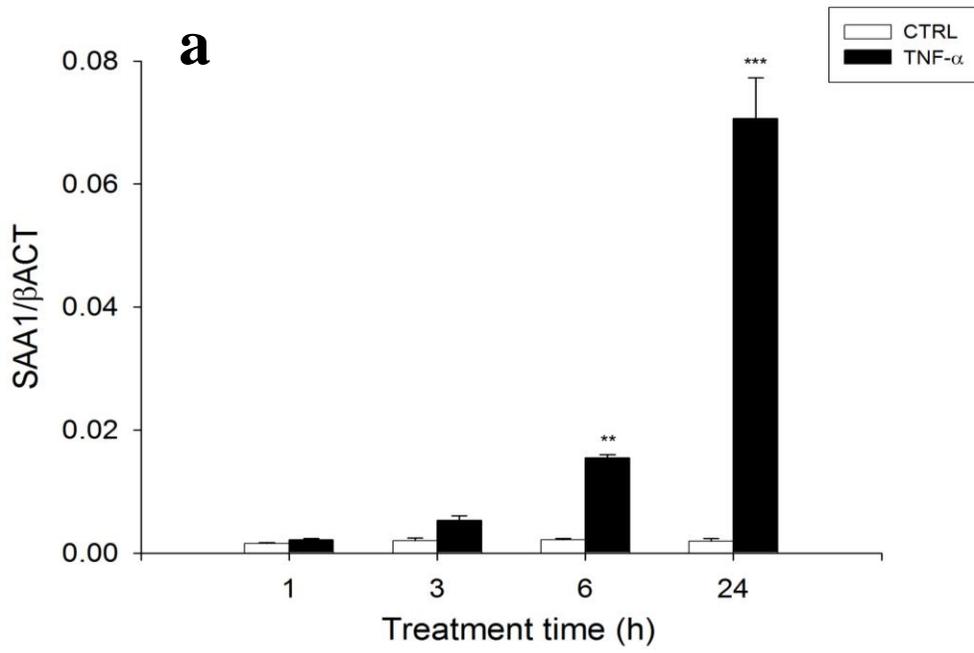
Supplementary Information

Expression and Differential Responsiveness of Central nervous System Glial Cell Populations to the Acute Phase Protein Serum Amyloid A

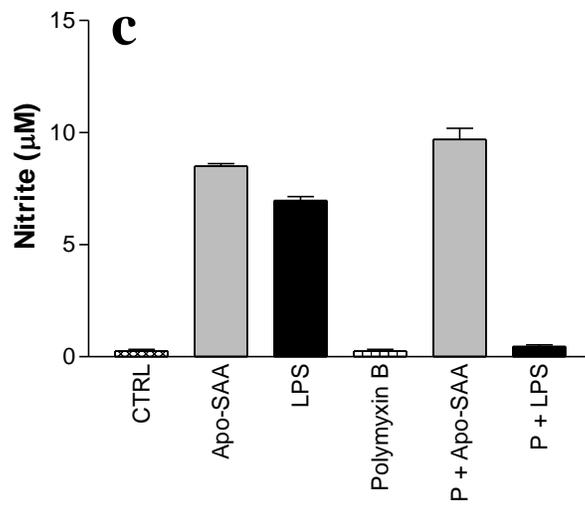
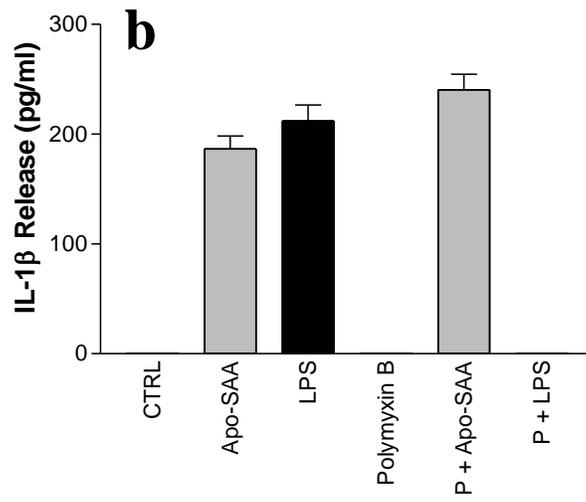
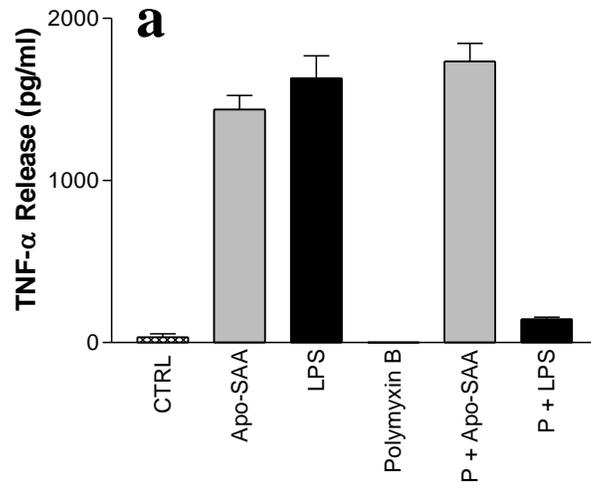
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Pietro Giusti



Supplementary Figure S1. Purified rat cortical microglia **(a)** and enriched astrocytes **(b)** display differential timings in expression of mRNA for *Saal* in response to treatment with TNF- α or LPS. Cultures were treated the day after plating (DMEM + 0.5% FCS) with 10 ng/ml TNF- α or 100 ng/ml LPS and processed 1 and 6 days later for qRT-PCR, as detailed in Methods. Data are presented as relative expression level (normalized with respect to β -actin (β ACT)) at each time point and are means + s.e.m. n=6 (n=3 for microglia at 6 days). **(a)** ***p<0.001 vs LPS at 1 day and 6 days, respectively. **(b)** **p<0. vs TNF- α at 1 day; ##p<0.01 vs TNF- α at 6 days. Expression values for control (untreated cells have been omitted, owing to their very low levels (<0.001)).



Supplementary Figure S2. Treatment of rat cortical OPCs with TNF- α up-regulates, in a time-dependent manner mRNA for *Saa1* but not *Saa3*. **(a)** SAA1; **(b)** SAA3. Cultures of OPCs were treated the day after plating (Sato medium) with 10 ng/ml TNF- α and processed 1, 3, 6 and 24 h later for qRT-PCR, as detailed in Methods. Data are presented as relative expression level (normalized with respect to β -actin (β ACT)) at each time point and are means + s.e.m. n=3. **p<0.01 vs control (CTRL); ***p<0.001 vs control.



Supplementary Figure S3. Polymyxin B blocks the effect of LPS, but not apo-SAA, on stimulation of inflammatory mediator release from rat cortical microglia. Cultures were treated the day after plating (DMEM + 0.5% FCS) with with polymyxin B ('P') (10 $\mu\text{g/ml}$) followed 30 min later by 1.5 $\mu\text{g/ml}$ recombinant human Apo-SAA (Apo-SAA) or 100 ng/ml LPS and culture medium collected 24 h later for measurement of (a) TNF- α and (b) IL-1 β by ELISA, or (c) NO by Griess reaction. Data are expressed as means \pm s.e.m. n=3.