

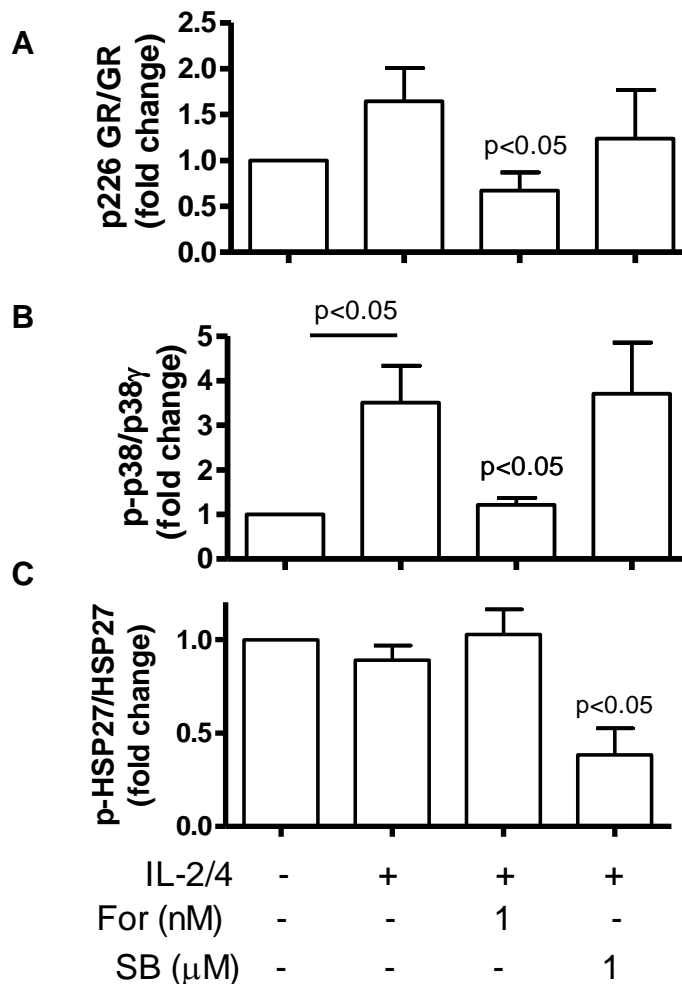
Supplementary Figure 1

p38 MAP kinase- γ inhibition by long-acting β_2 adrenergic agonists reversed steroid insensitivity in severe asthma

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Molecular Pharmacology

Effects of Formoterol and SB203580 on phosphorylation of GR, p38MAPK γ and HSP27 in PBMC treated with IL-2 and IL-4



PBMCs obtained from healthy subjects were treated with IL-2/IL-4 for 48 hours, and then incubated with formoterol (For: 1nM) or SB203580 (SB: 1 μ M) for 20 min. Cells were collected and phospho-HSP27, GR, p38MAPK γ and total HSP27, GR, p38MAPK γ have been visualized by SDS-PAGE/Western blotting. Band densities were analysed and the ratio of phospho-protein vs. total protein was determined in each protein in each experiment. Y axis is shown as fold change vs. non-treatment cells. P < 0.05 vs. IL2/4 control. Panel A: phospho GR at Ser226/GR Panel B: phospho-p38MAPK γ /p38MAPK γ Panel C: phospho-HSP27/HSP27 N=6