INTRODUCTION

To assess the regulatory mechanism of sulforaphane for in activated HMC-1 cells, we investigated the inhibition-inhibitory effect of sulforaphane on PMACI-induced NF-κB activation. Because Since the blockade of NF-κB is linked with anti-inflammatory effectactivity, we postulated that sulforaphane and WE mediate its their effects at least partly via inhibiting inhibition of NF-κB activation. The pPretreatment with WE or sulforaphane mitigated the PMACI-induced NF-κBp65 levels in the nuclear protein extract (Fig. 7A upper). As an inhibition marker of NF-κB activation, the phosphorylation of IκBα in cytosolic protein extracts was analyzed. As a result, we show Our results show that WE and sulforaphane mitigated the PMACI-induced IκBα phosphorylation (Ffig. 7A lower). Protein levels of PARP and GAPDH did were not affected by any treatment in the nuclear and cytosolic protein extracts.

Finally, we wished to identifyidentified if whether sulforaphane could regulate MAPKs phosphorylation because since inflammatory cytokine levels secreted from the origin of HMC-1 cells are known to be regulated via MAPKs signaling pathways [7]. The sStimulation with PMACI induced significant increases in the phosphorylatedion levels of p38, JNK, and ERK MAPKs compared to those of untreated cells (Fig. 7B). However, the pretreatment with sulforaphane or WE mitigates mitigated the elevated phosphorylation the phosphorylated levels of p38, JNK, and ERK MAPKs increased by PMACI stimulation (Figure 7B).

