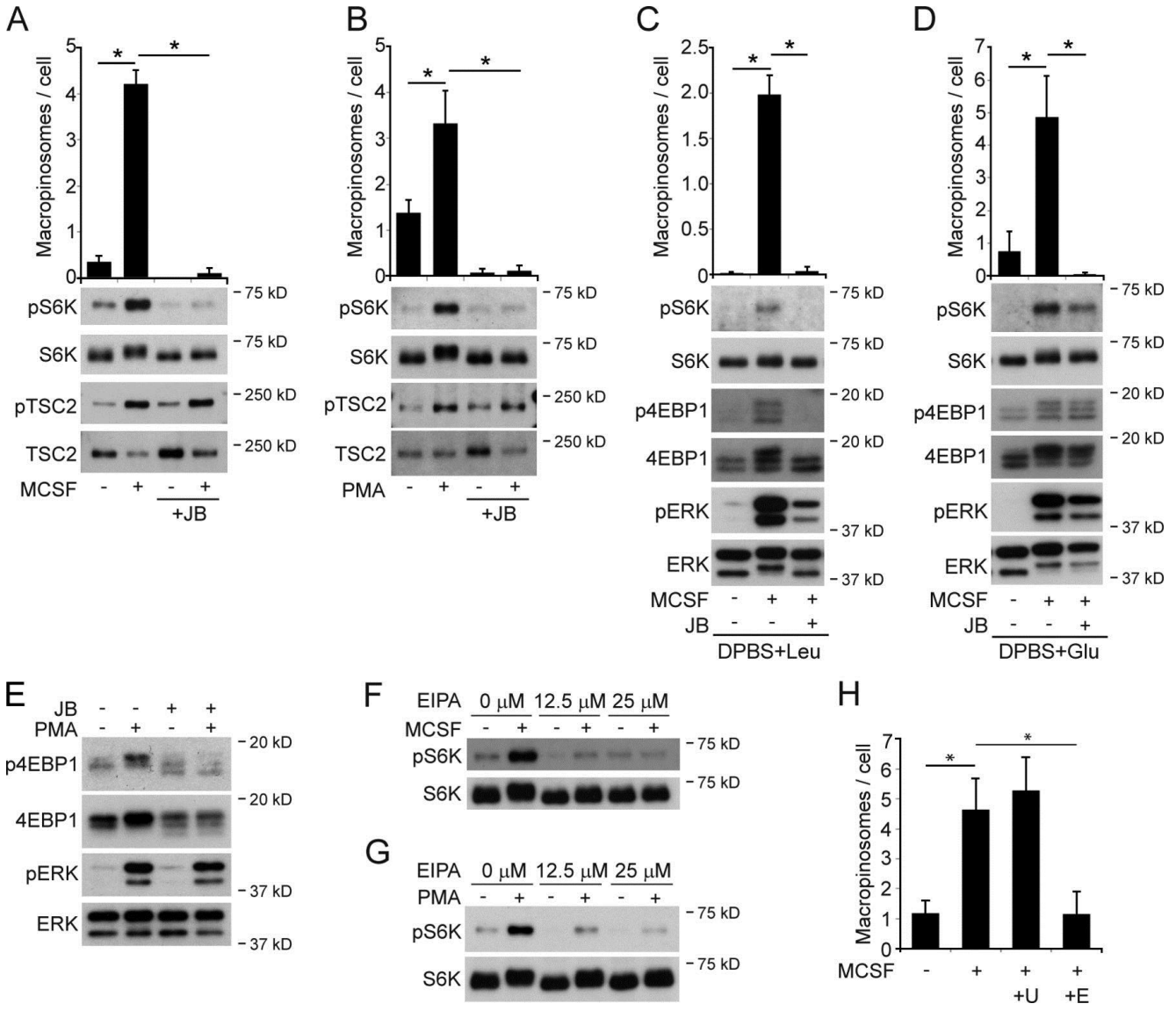
Macropinocytosis is required for activation of mTORC1 in BMM. (A–D) Effects of JB on macropinocytosis (top) and mTORC1 activity (bottom).



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JCB

Macropinocytosis is required for activation of mTORC1 in BMM. (A–D) Effects of JB on macropinocytosis (top) and mTORC1 activity (bottom). JB treatment blocked both macropinocytosis and mTORC1 activity in response to M-CSF in DMEM (A), PMA in DMEM (B), or M-CSF in DPBS containing 0.4 mM leucine (C). (D) JB did not inhibit activation of mTORC1 in response to M-CSF in DPBS containing 5.6 mM glucose. (E) JB inhibited 4EBP1 phosphorylation in response to PMA in BMM. (F and G) EIPA inhibited activation of mTORC1 by M-CSF (5-min stimulation; F) and PMA (30-min stimulation; G). (H) Macropinosome formation in response to M-CSF was inhibited by EIPA (+E), but not by U0126 (+U). Macropinocytosis measurements of A–D and H show the means ± SEM from three independent experiments, with >25 cells scored per condition. *, $P < 0.05$, one-tailed *t* test.