

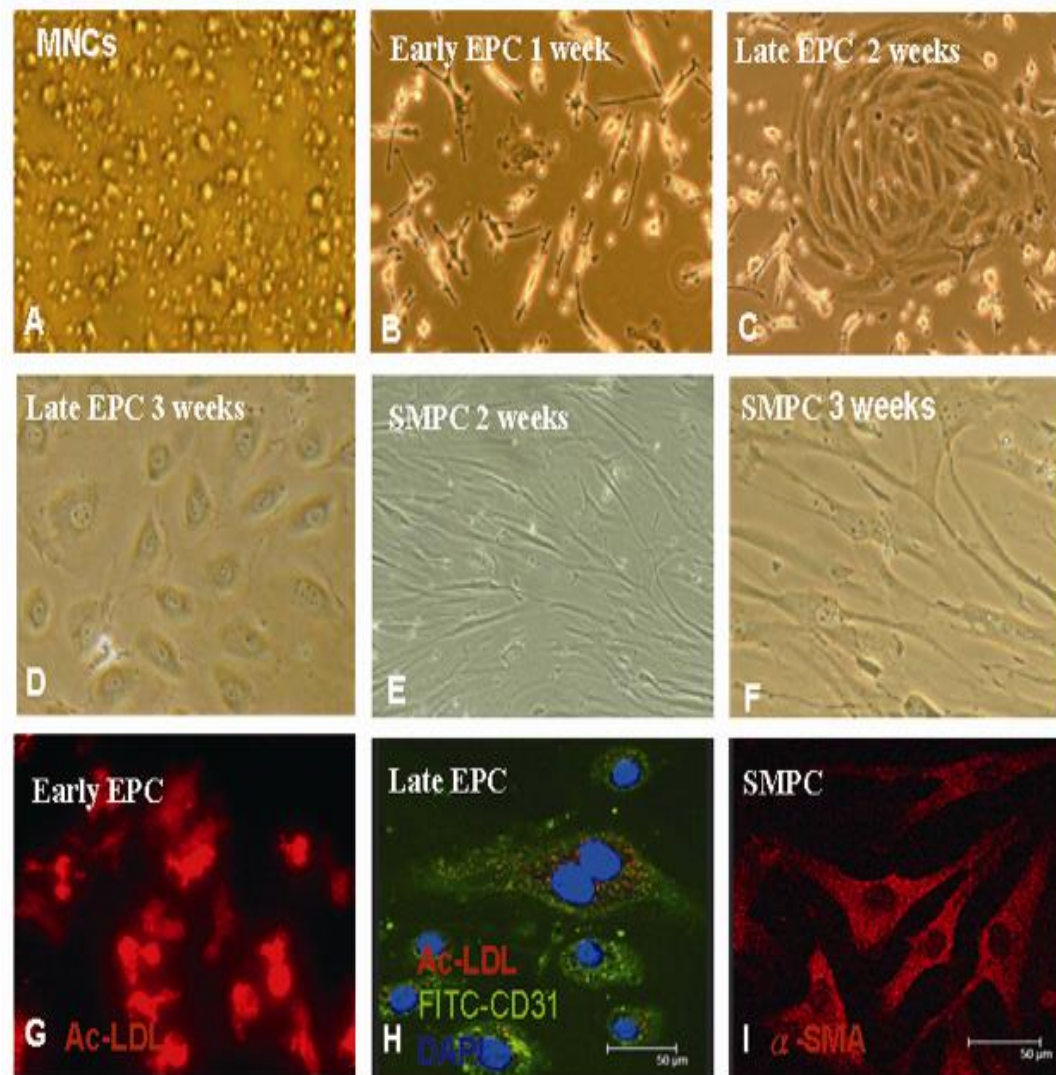
Title:

Activation of heme oxygenase-1 by Ginkgo biloba extract differentially modulates endothelial and smooth muscle-like progenitor cells for vascular repair

Authors:

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Supplementary Fig. 1

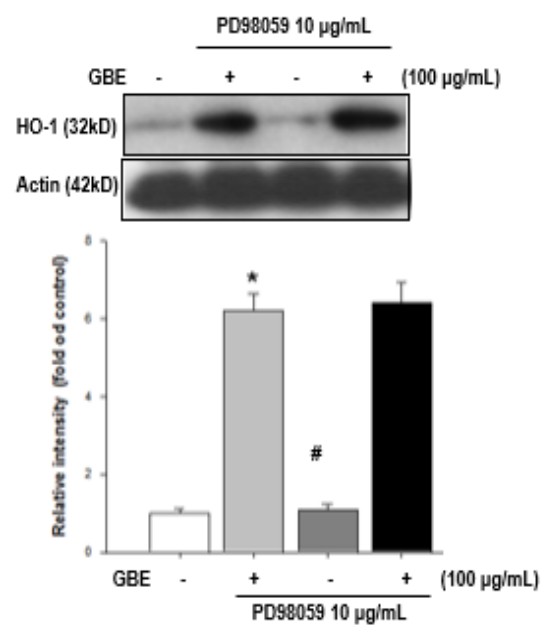


Supplementary Figure 1.

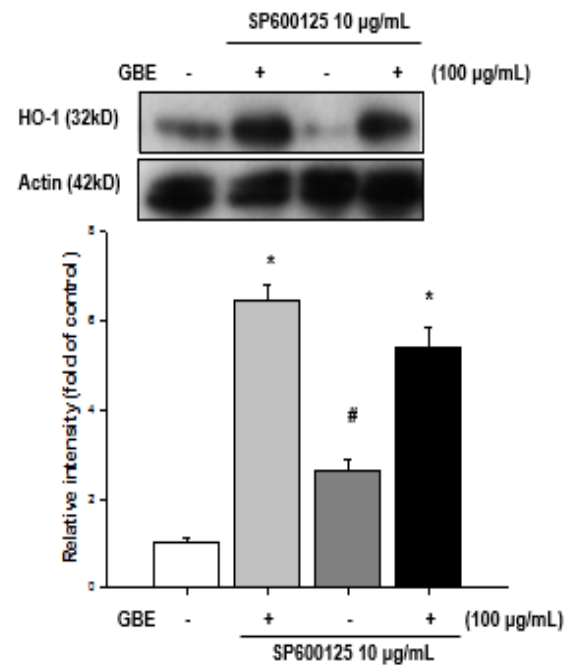
Morphology and characterization of circulation early, late endothelial progenitor cells, and smooth muscle progenitor cells. [A] MNCs were isolated and plated on fibronectin-coated culture dishes on the first day. [B] Four days after plating, adherent circulating early EPCs with spindle shapes were observed. [C] Fourteen days and [D] twenty-one after plating, late EPCs with cobblestone-like morphology were selected and reseeded. [E] Fourteen days and [F] twenty-one after plating, SMPCs with spindle shapes morphology were selected and reseeded, like mature smooth muscle cell. [G] Immunofluorescence detected s DiI-acLDL uptake in early EPCs. [H] Late EPCs were shown to simultaneously endocytose DiI-acLDL (red) and immunofluorescence detected (green) CD31. [I] SMPCs were shown to immunofluorescence detected α -SMA. Scale bar: 50 μ m.

Supplementary Fig. 2

A.



B.



Supplementary Figure 2.

Role of ERK and JNK signaling in GBE-stimulated HO-1 protein accumulation. [A] A representative immunoblot shows HO-1 protein levels in late EPCs in response to treatment with PD98059 (ERK inhibitor) for 30 minutes, followed by incubation with GBE for 24 hours. [B] A representative immunoblot shows HO-1 protein levels in late EPCs in response to treatment with SP600125 (JNK inhibitor) for 30 minutes, followed by incubation with GBE for 24 hours. Data are presented as mean $\pm$ SEM; n = 6; *P < 0.05 vs. controls; #P < 0.05 vs. the GBE-treated group.

Fig. 3A

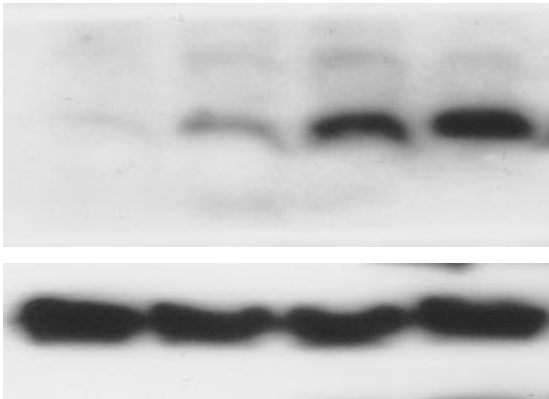
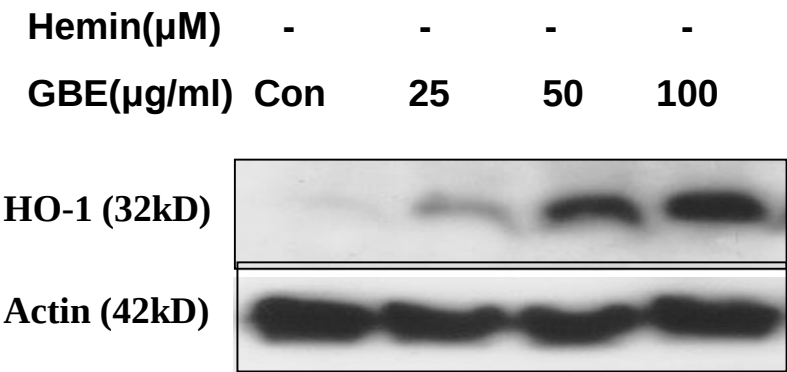


Fig. 3B

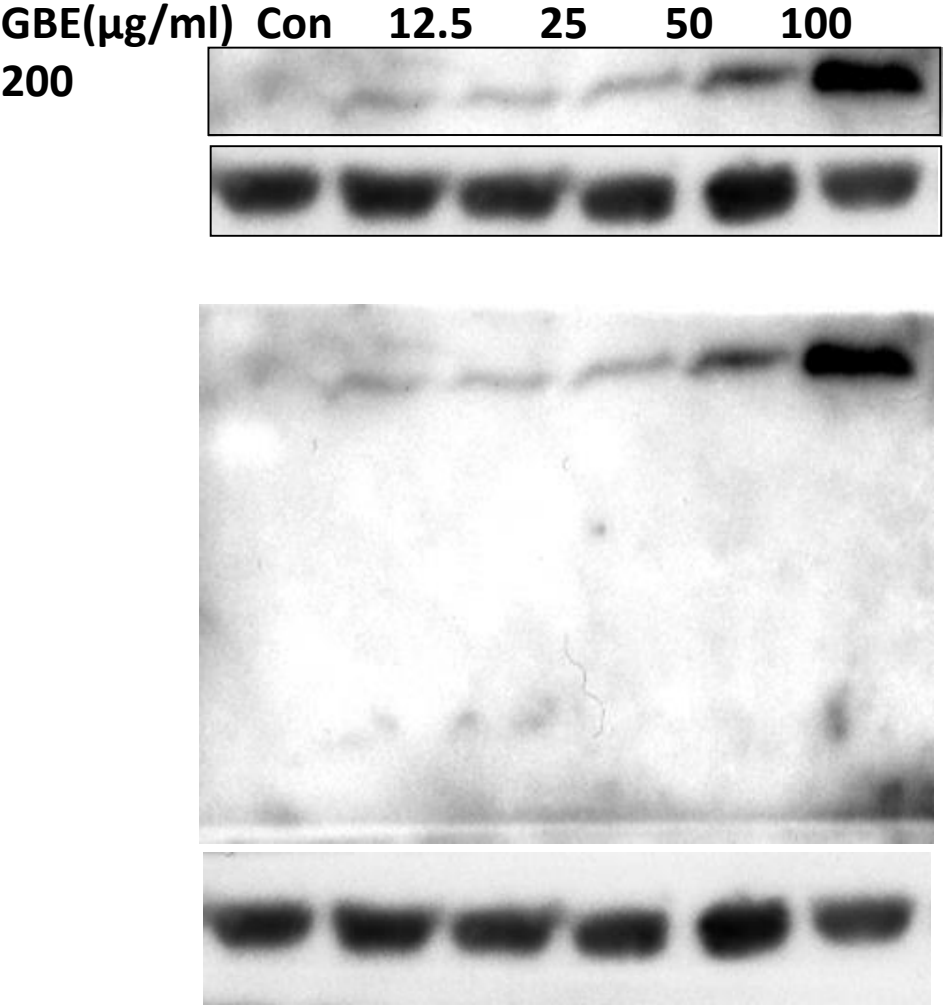


Fig. 4D

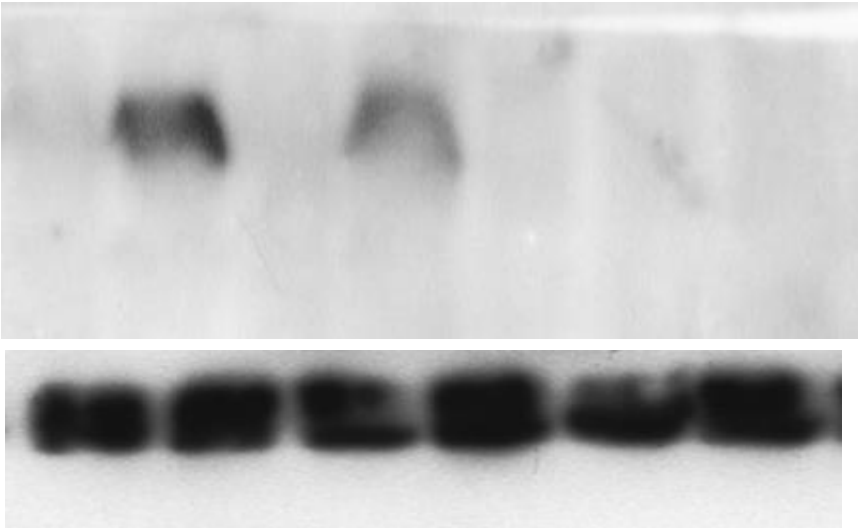
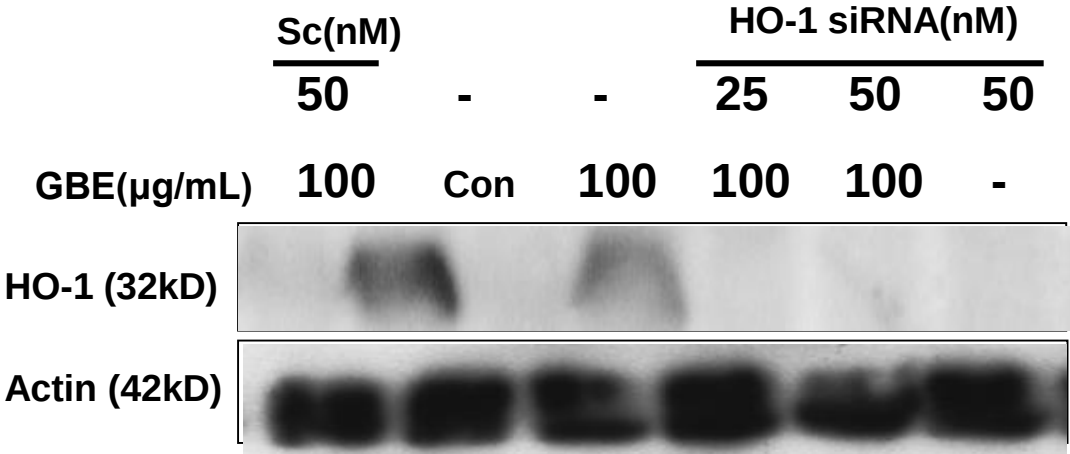
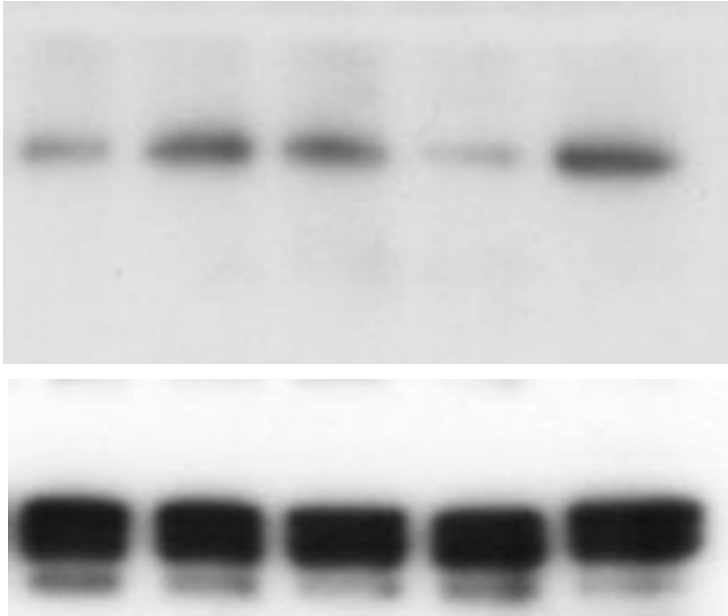
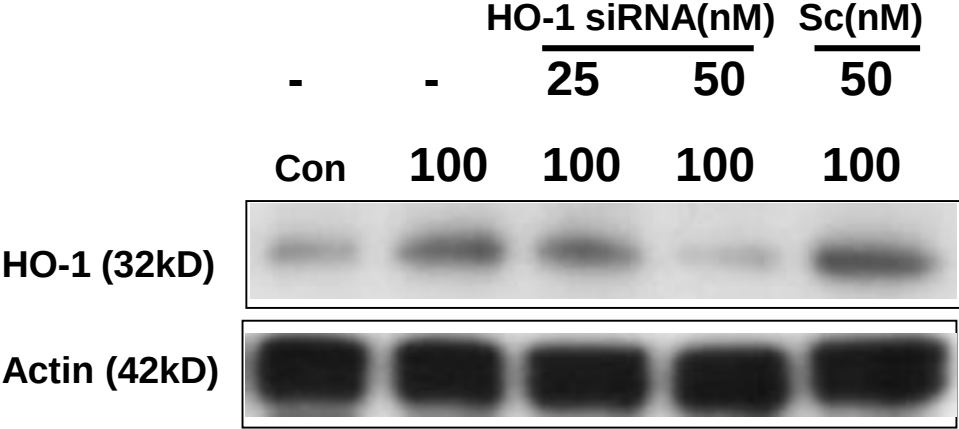


Fig. 4E



GBE ($\mu\text{g/mL}$) 120 mins

Fig. 5A

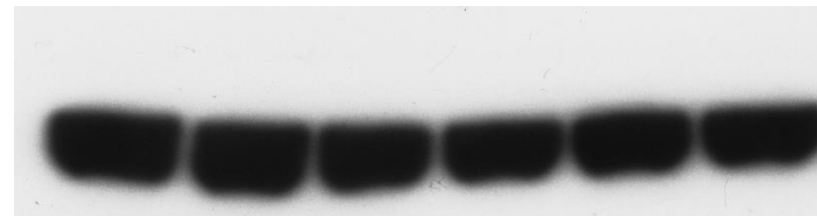
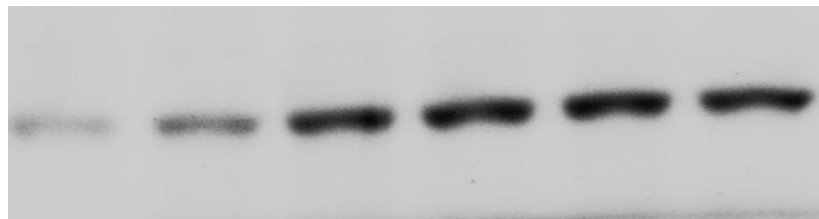
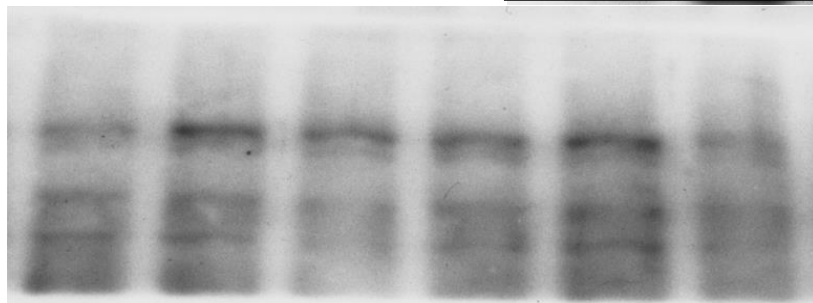
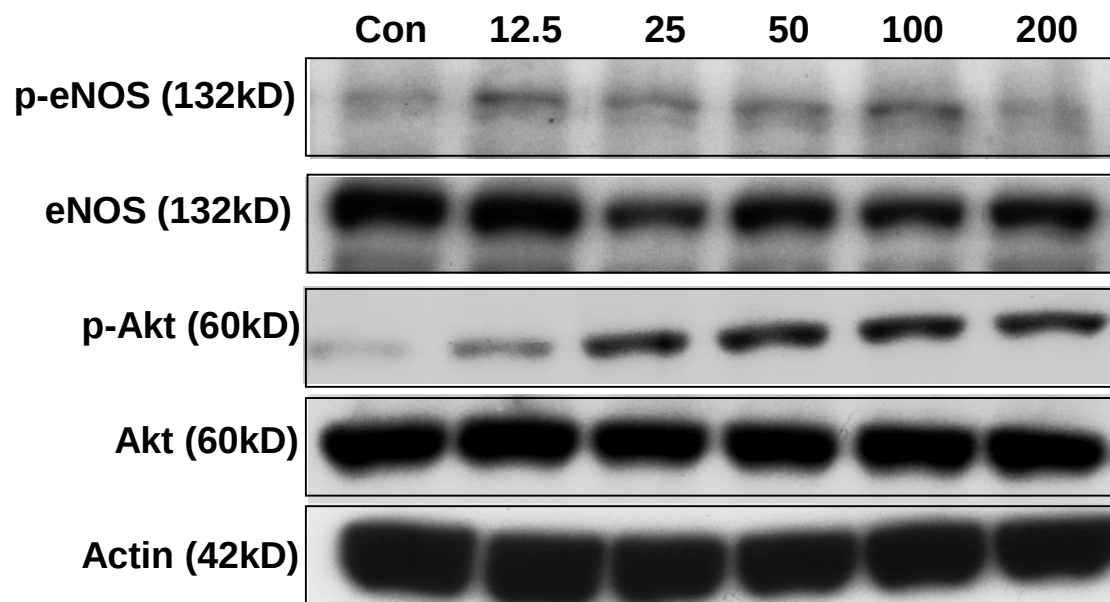


Fig. 5E

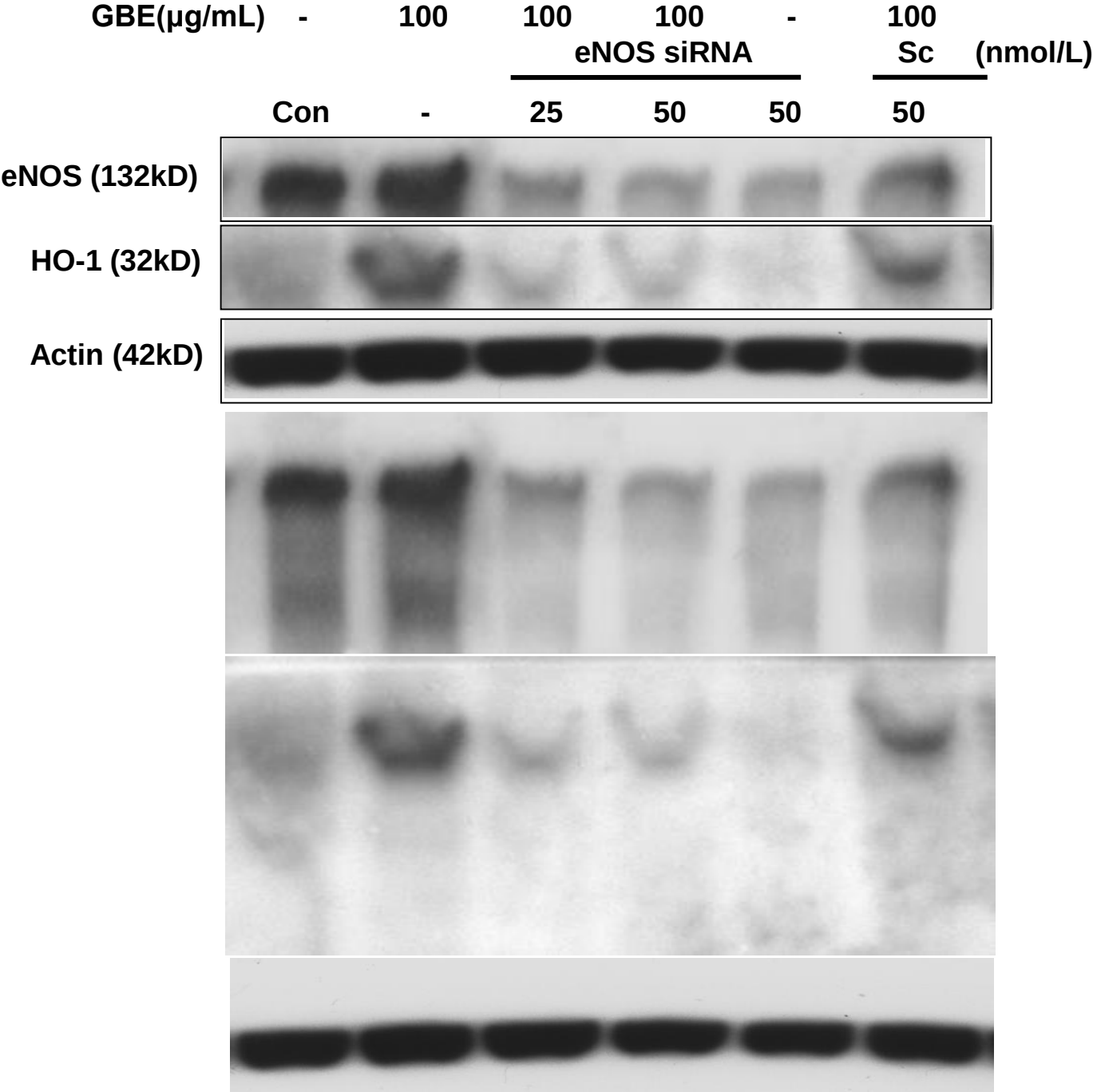


Fig. 6D

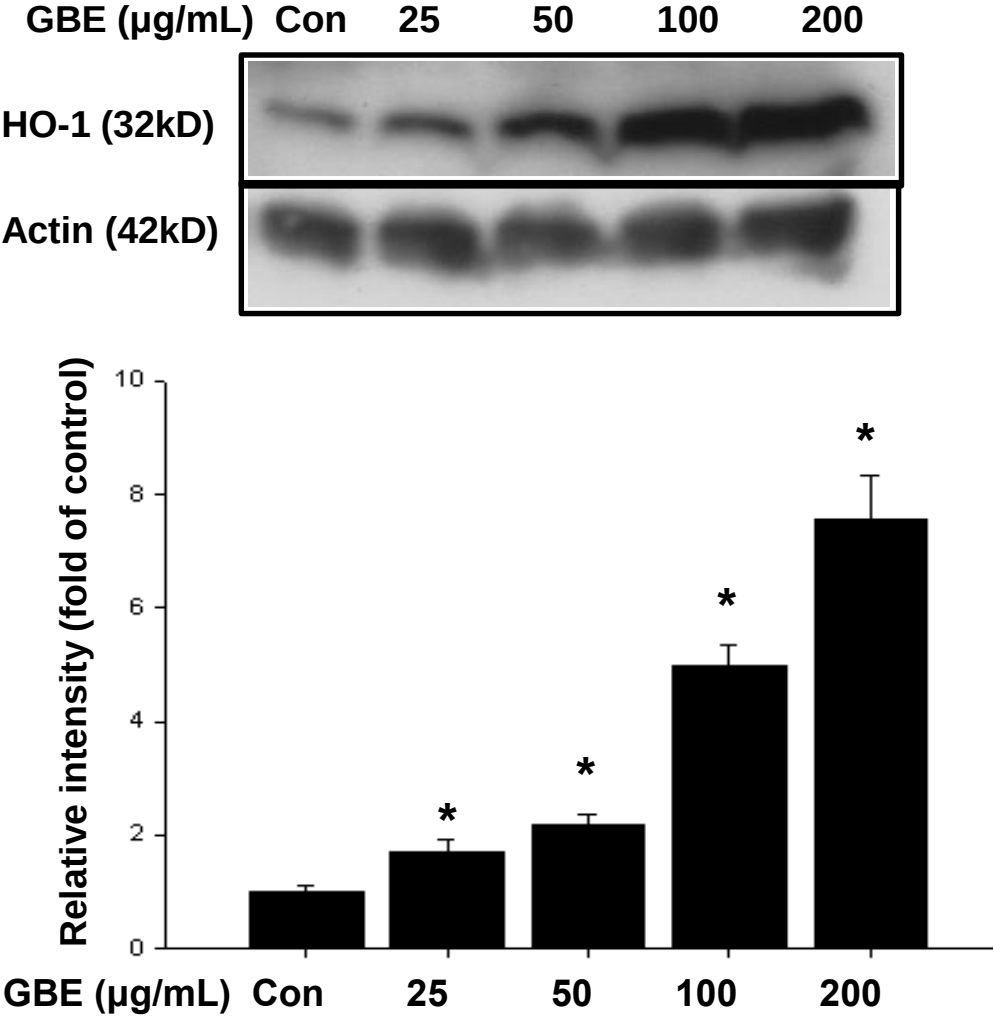


Fig. 6D

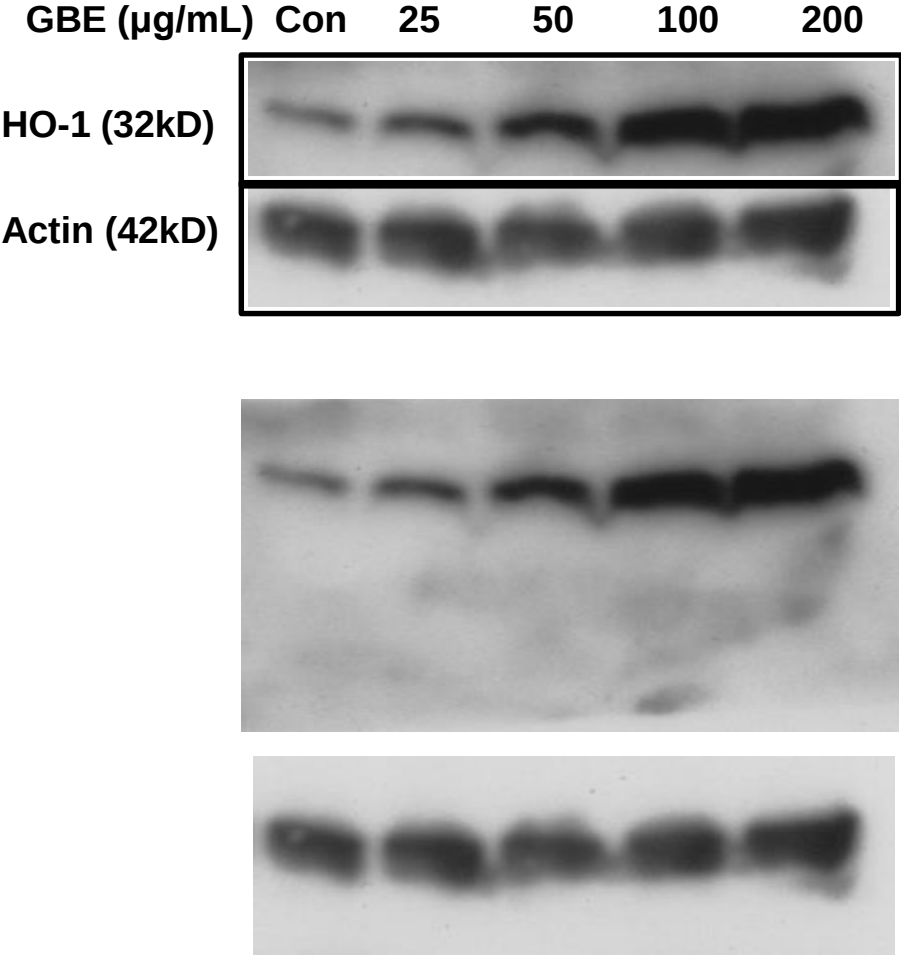


Fig. 7A

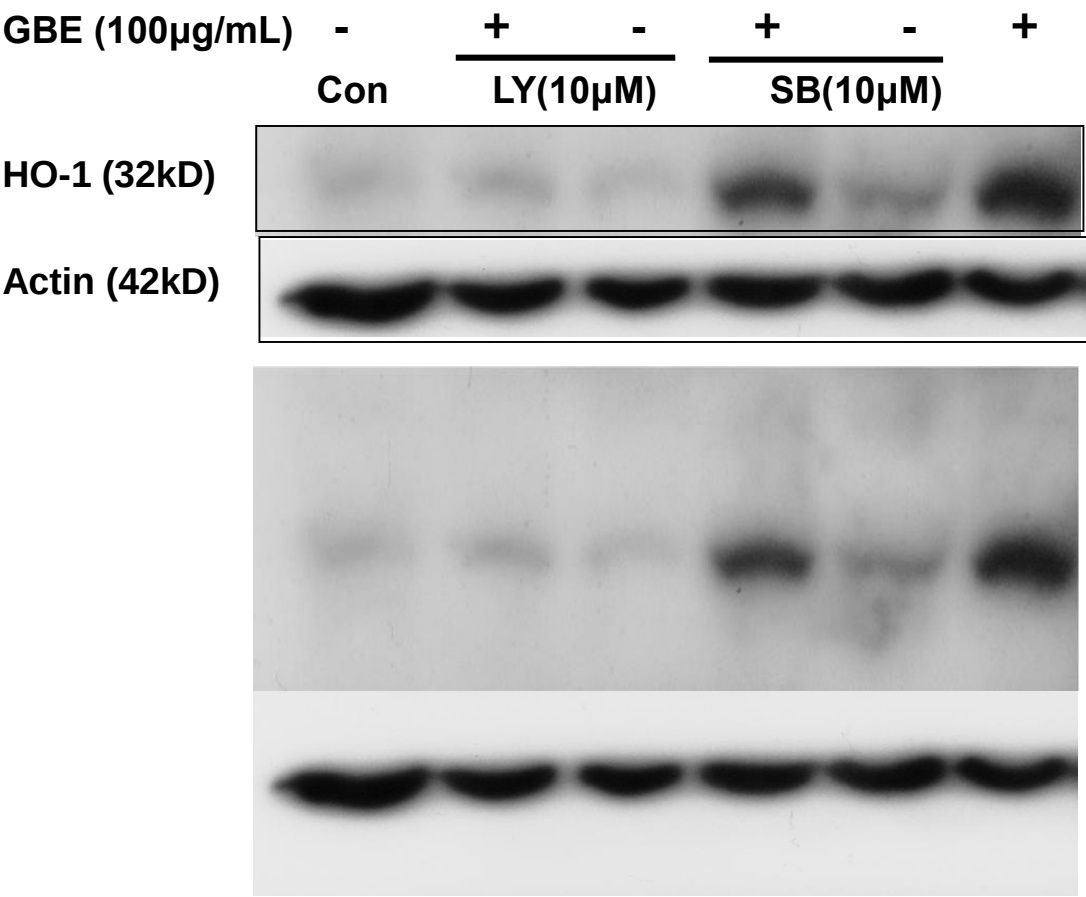
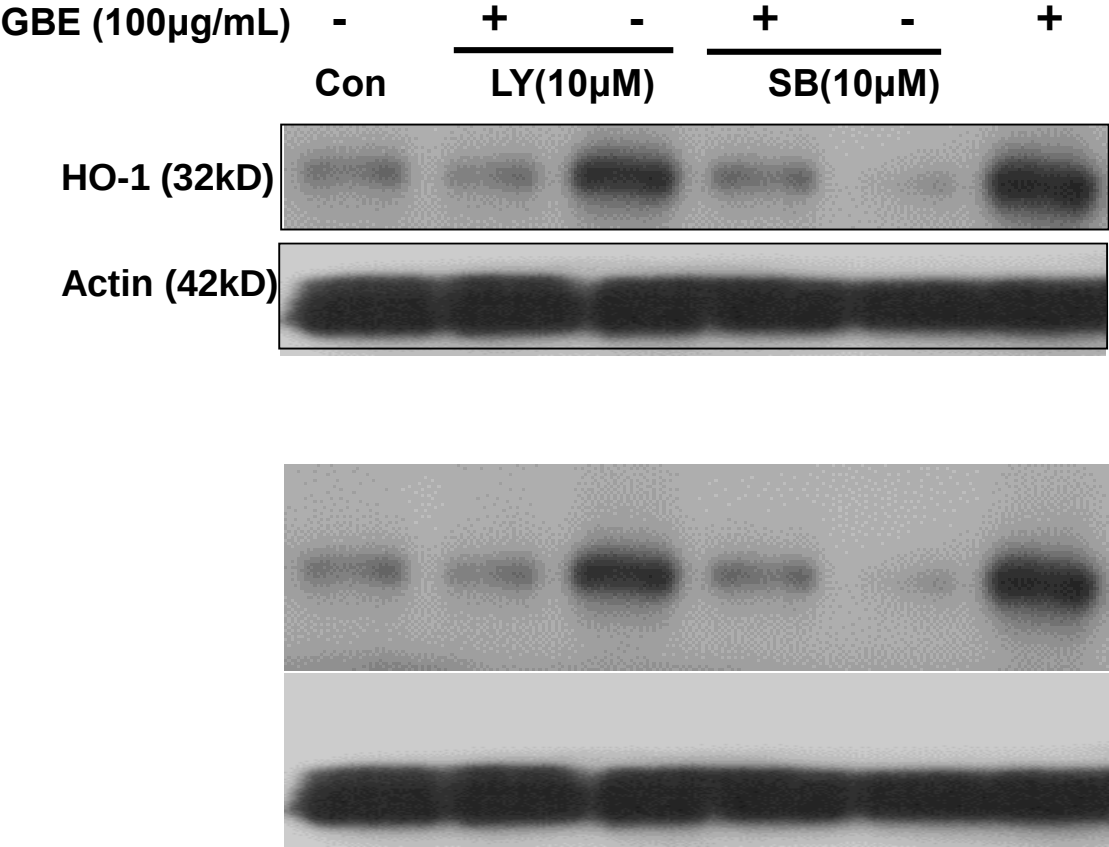
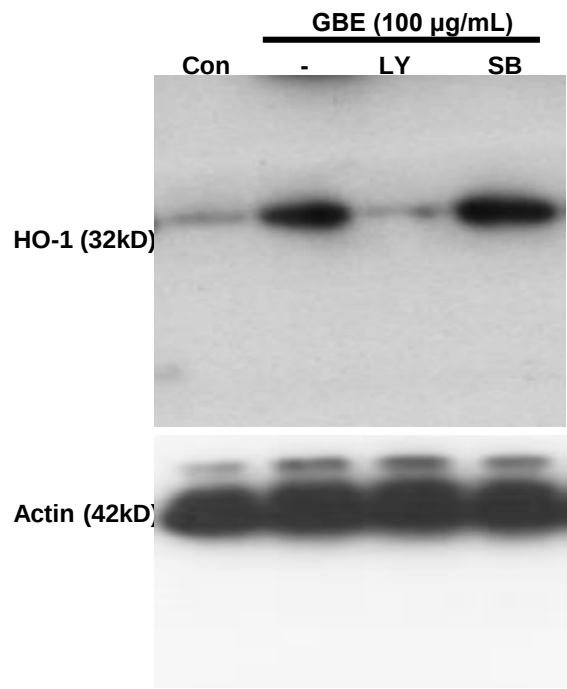


Fig. 7B



Supplementary Fig. 2

A



B

