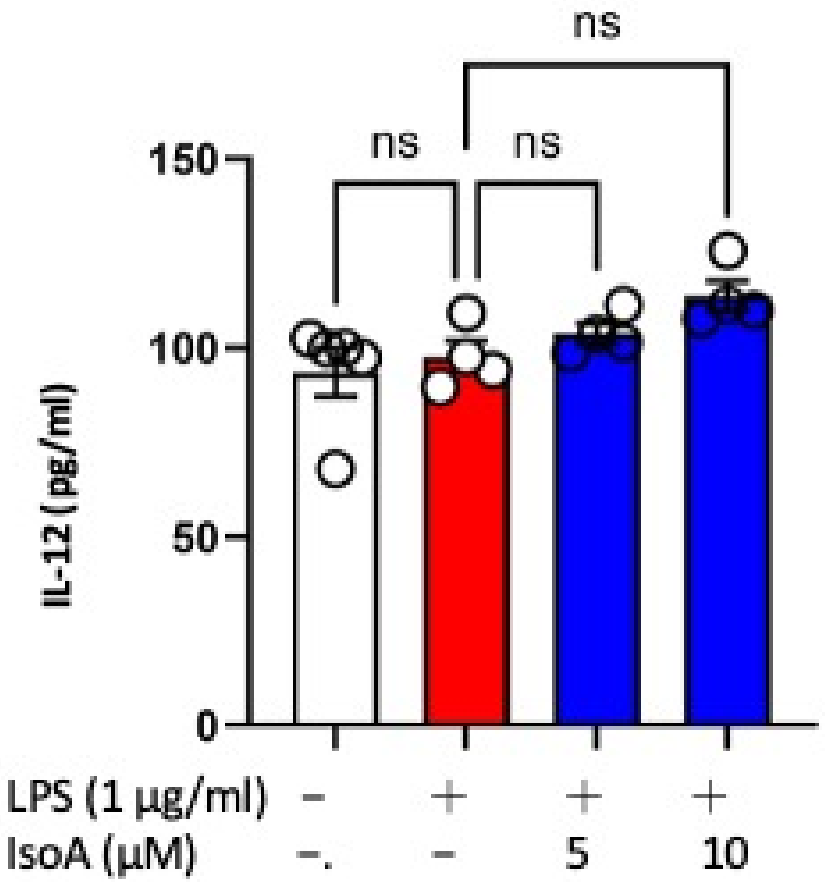
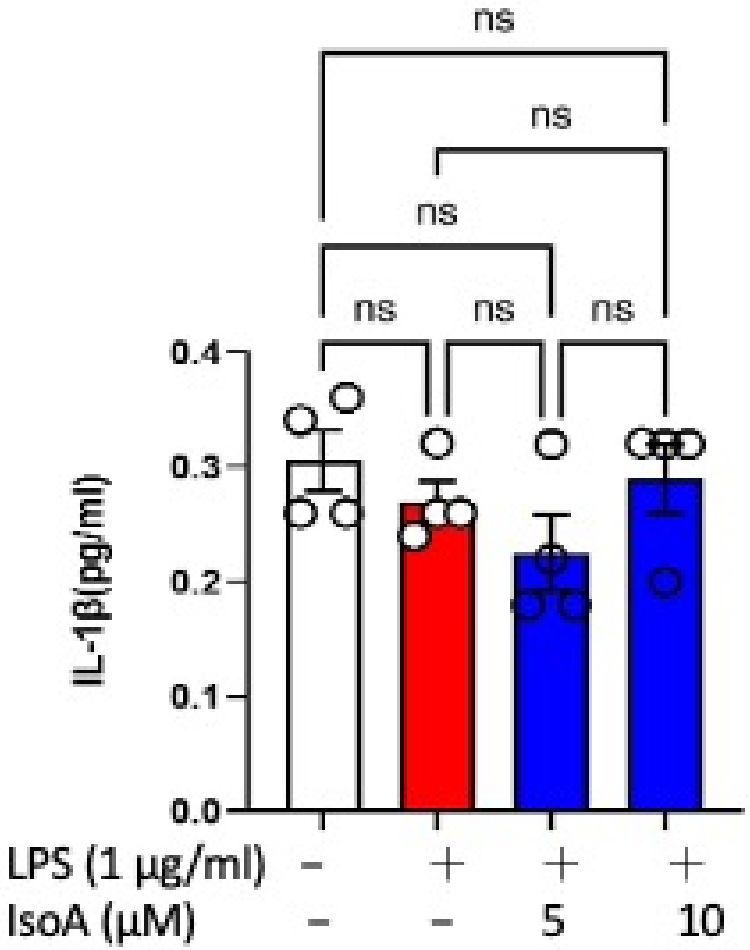
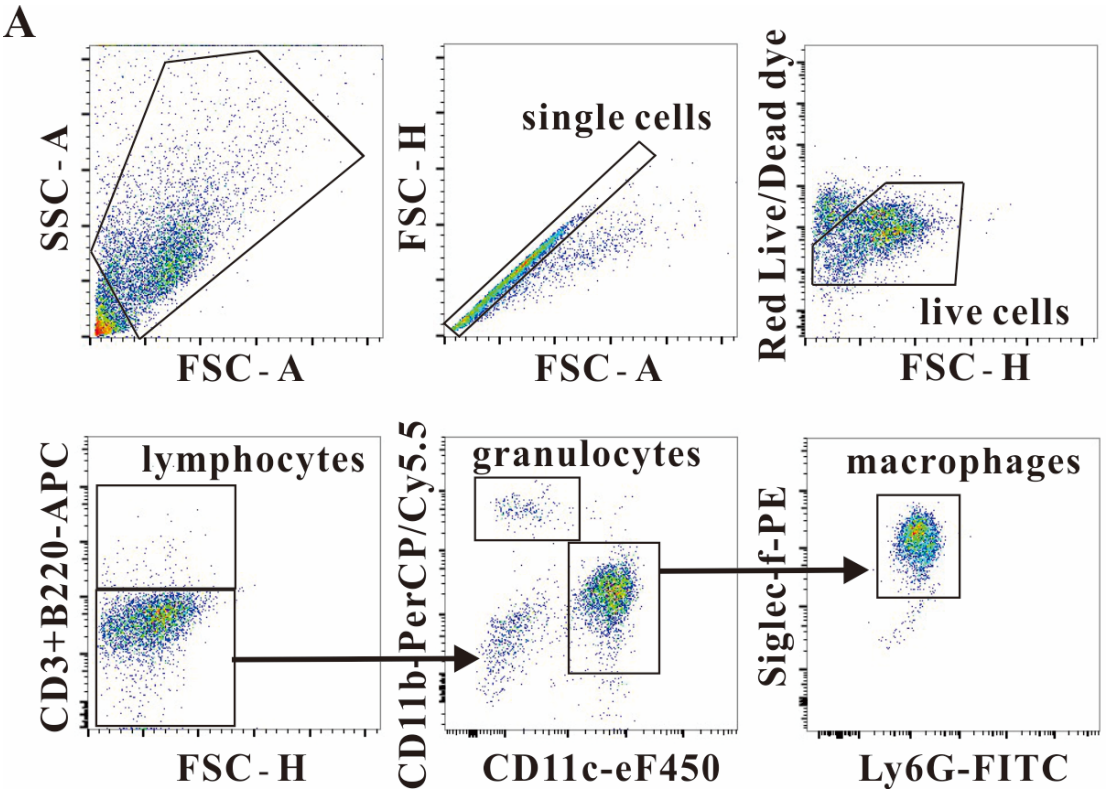

ns
ns
ns
150
100
50
0
IL-12 (pg/ml)
LPS (1 µg/ml) – + + +
IsoA (µM) –. – 5 10


ns
ns
ns
ns
ns
ns
0.4
0.3
0.2
0.1
0.0
IL-1β(pg/ml)
LPS (1 µg/ml) – + + +
IsoA (µM) – – 5 10

Supplementary Figure S2



Supplementary Figure 2. Gating strategy for immune cell subsets in BALF. Cells collected from bronchoalveolar lavage fluid (BALF) were first gated based on forward scatter (FSC-A) and side scatter (SSC-A) parameters. Live single cells were then selected for further analysis. Lymphocytes were identified as $CD3^+$ or $B220^+$ cells. Granulocytes were gated as $CD11b^+CD11c^-$ cells. $CD11b^-CD11c^+Siglec\text{-}F^+Ly6G^-$ cells were defined as macrophages.

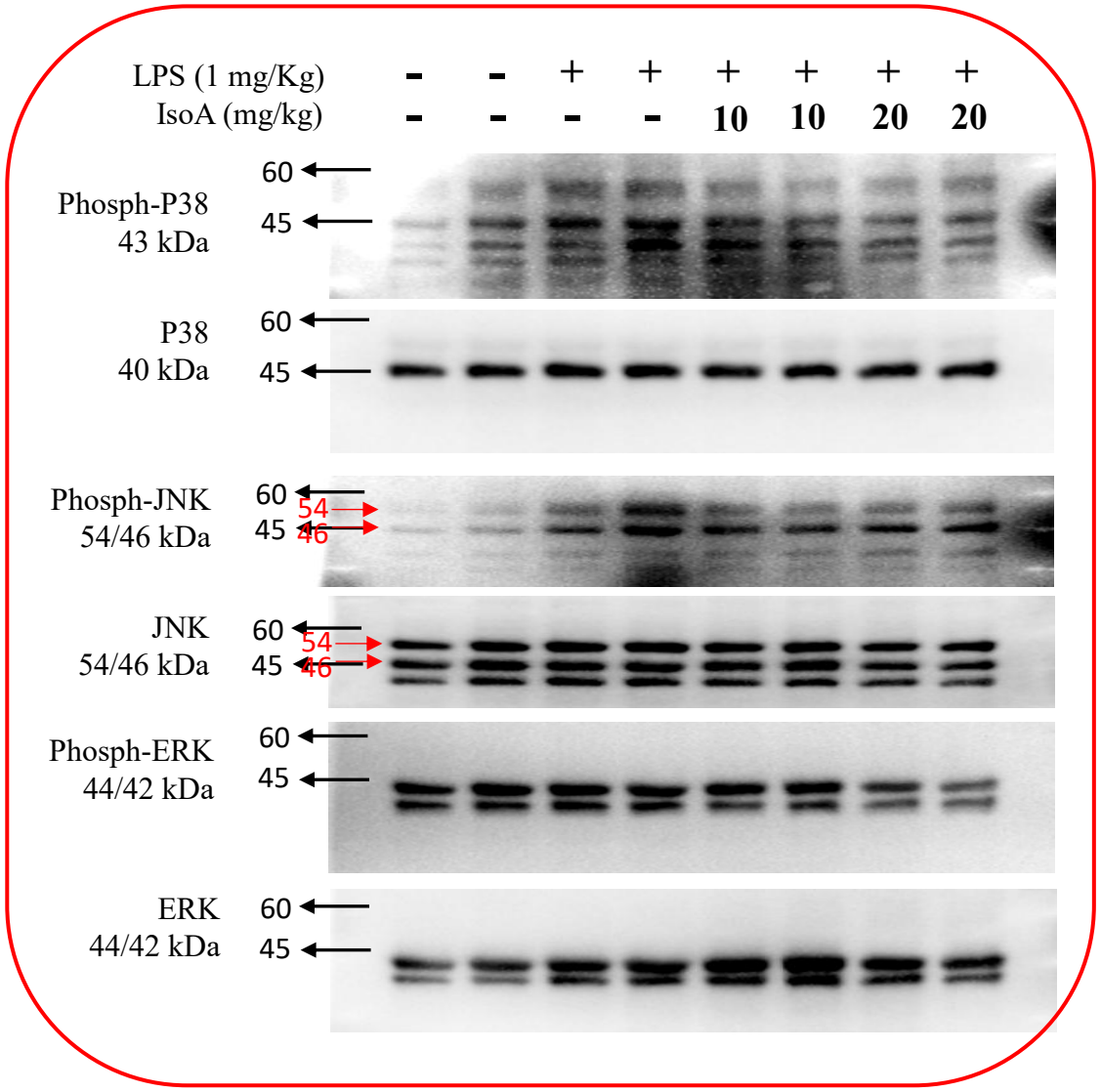
Flow cytometry gating strategies

The staining panel and gating strategy used to identify immune cell subsets in BALF were established according to previously published studies [1]. Briefly, BALF cells were incubated with fluorochrome-conjugated monoclonal antibodies at 4 °C for 30 min. The antibodies included FITC-conjugated anti-Ly6G (1A8; BD Biosciences, San Jose, CA, USA), PE-conjugated anti-Siglec-F (E50-2440; BD Biosciences), APC-conjugated anti-B220 (RA3-6B2; BD Biosciences), APC-conjugated anti-CD3 (145-2C11; BD Biosciences), PerCP/Cy5.5-conjugated anti-CD11b (M1/70; BioLegend, San Diego, CA, USA), and eFluor 450-conjugated anti-CD11c (N41B; Invitrogen, Eugene, OR, USA). Cell viability was assessed using Live/Dead Fixable Red dye (Invitrogen). After staining and washing, samples were analyzed by multiparameter flow cytometry using an LSR II instrument (BD Biosciences), and the data were analyzed with FlowJo software (version 10; Tree Star, Ashland, OR, USA). The gating strategy used to identify immune cell populations in BALF is shown in Supplementary Figure 1.

1. Tseng, H.H., et al., *Di-(2-ethylhexyl) Phthalate Promotes Allergic Lung Inflammation by Modulating CD8alpha(+) Dendritic Cell Differentiation via Metabolite MEHP-PPARgamma Axis.* Front Immunol, 2022. **13**: p. 581854.

Figure 4. original western blot for five repeats (MAPK pathway)

Representative western blot



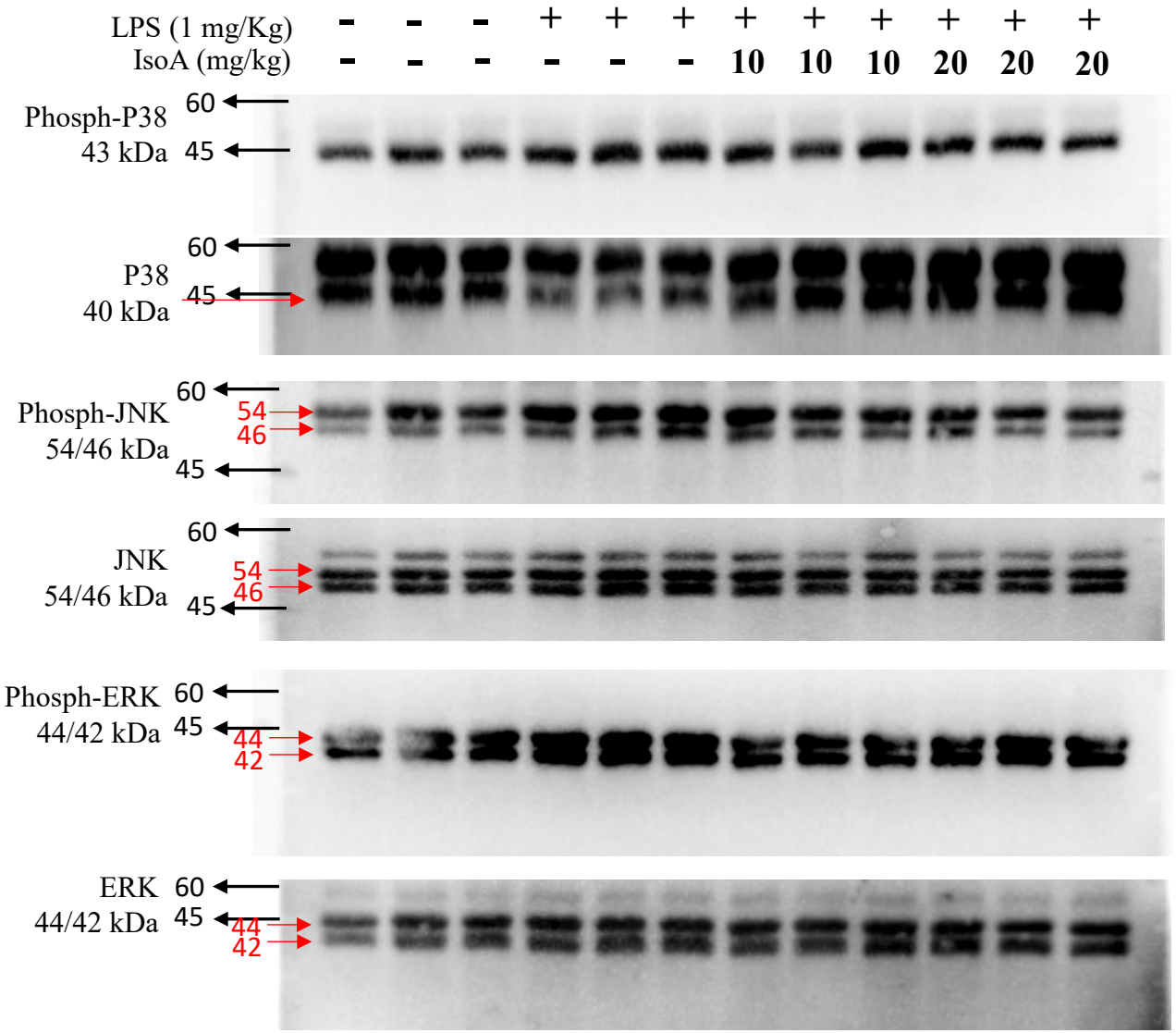
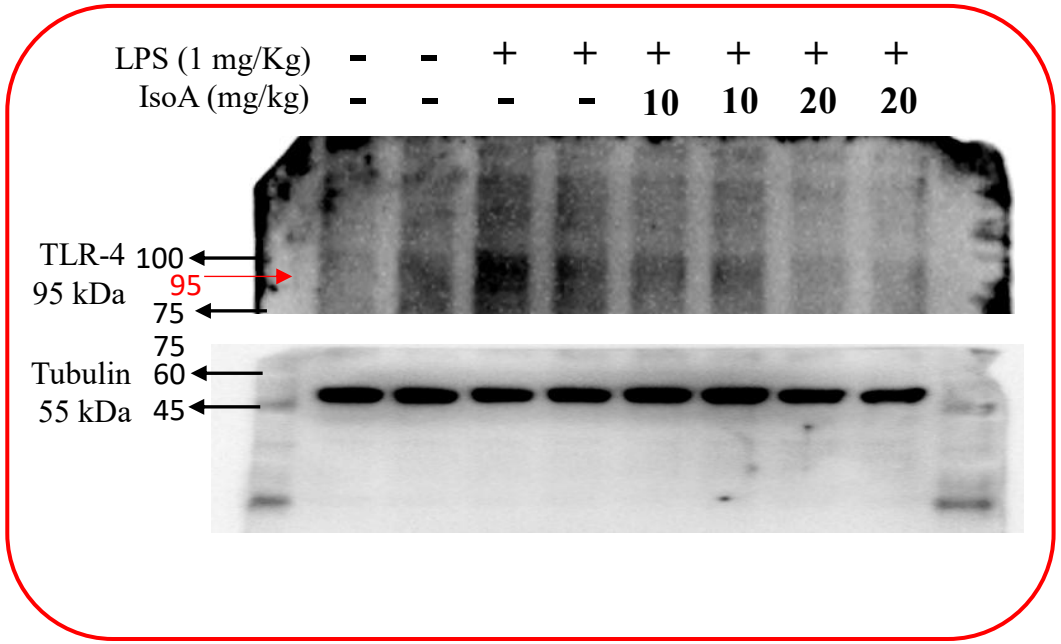


Figure 4. original western blot for five repeats (TLR-4)

Representative western blot



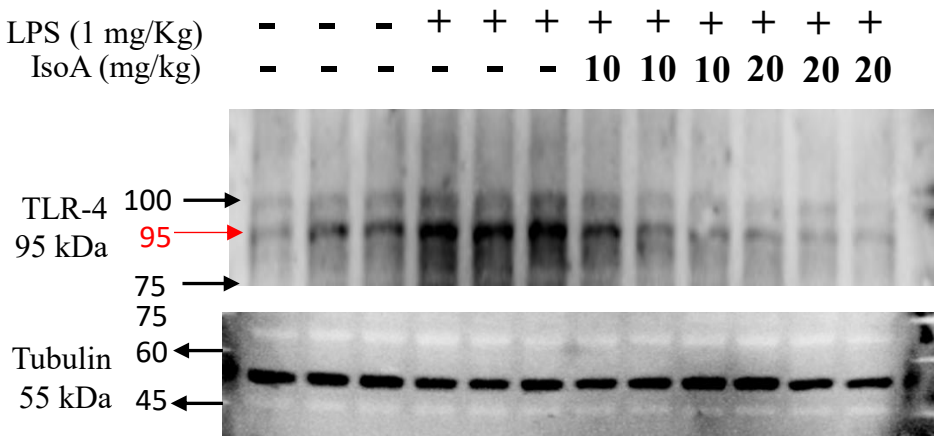
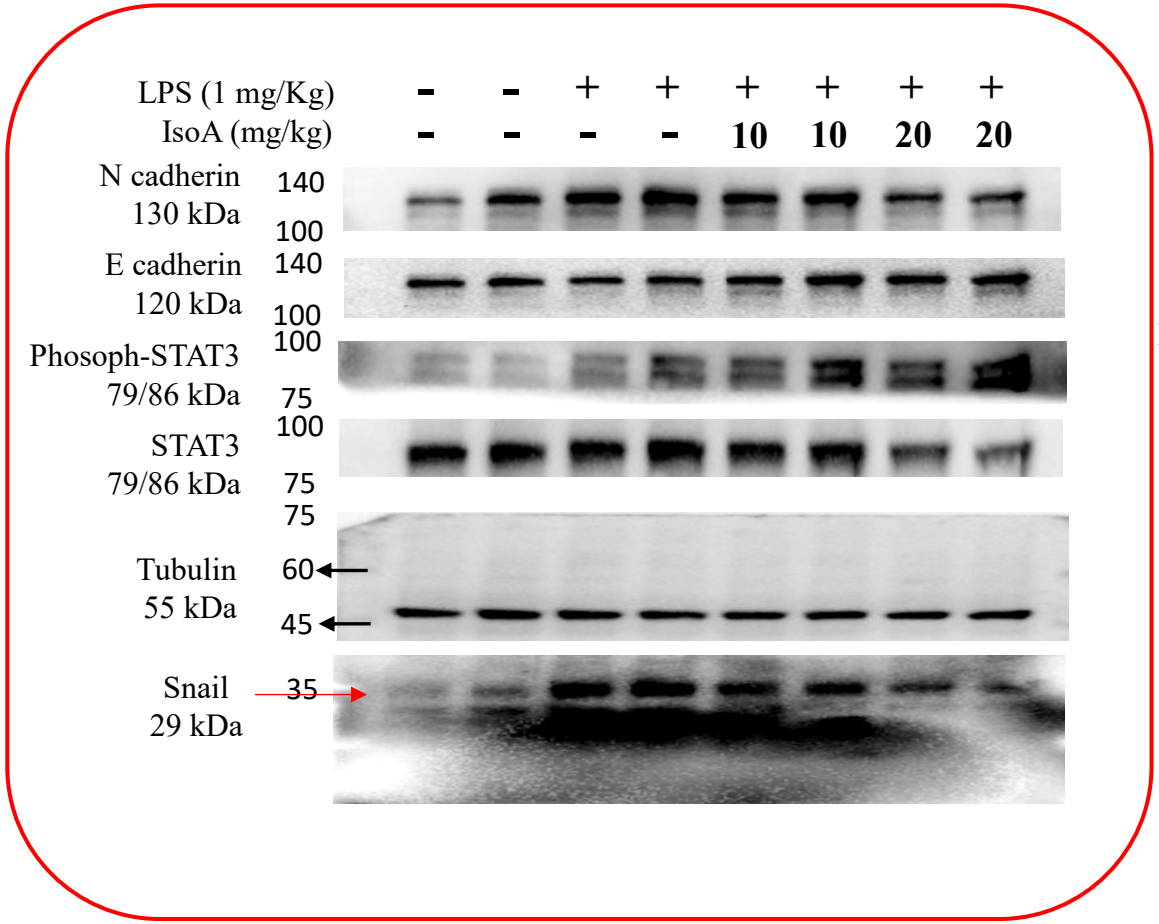
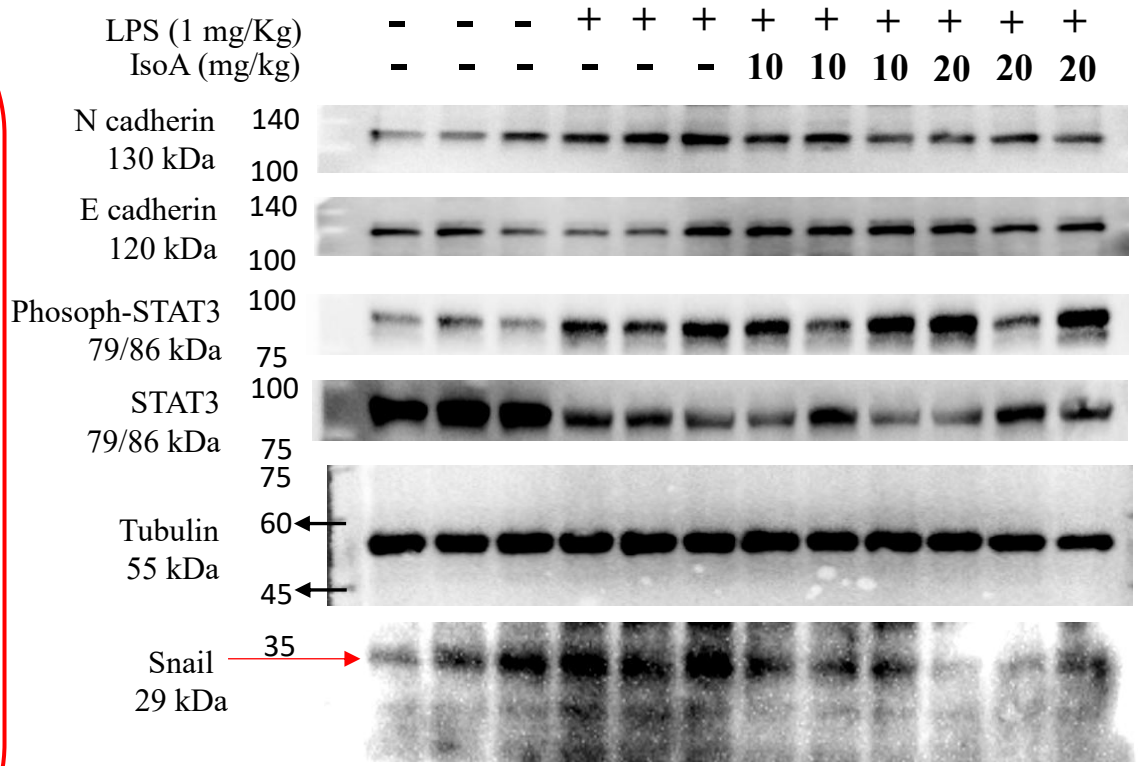


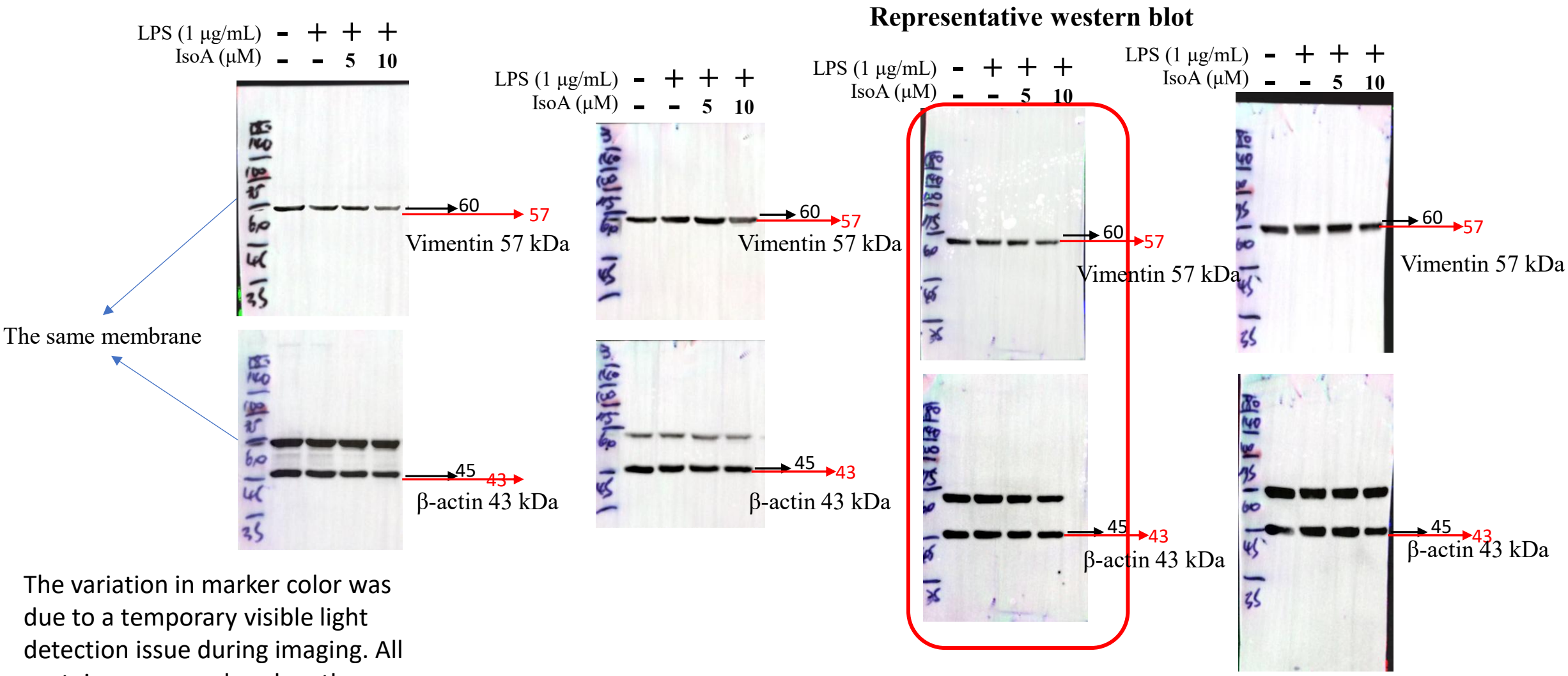
Figure 5. original western blot for five repeats

Representative western blot





Vimentin expression (raw data)



The variation in marker color was due to a temporary visible light detection issue during imaging. All proteins were analyzed on the same membrane.