

Supplementary file S1: F1

Sulindac Acetohydrazide derivative attenuates against cisplatin induced organ damage by modulation of antioxidant and inflammatory signaling pathways

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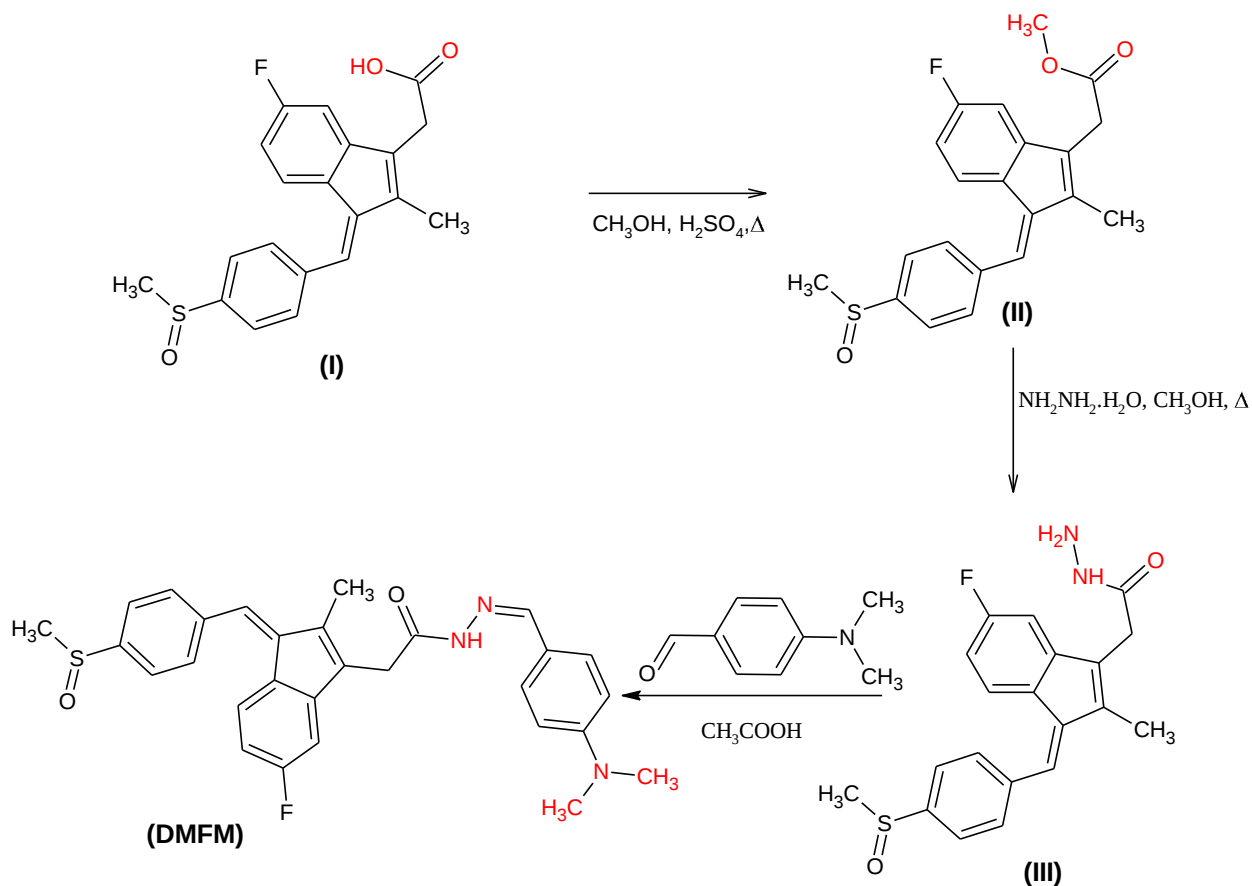


Figure 1: Scheme 1. Synthetic route of compound DMFM.

Table 1: Biochemical analysis of liver and kidney function biomarkers in blood serum studied in pilot experiment

Parameters	Treatments					
	Saline	CDDP (12.5 mg/kg)	CDDP (12.5 mg/kg) + DMFM (200 mg/kg)	CDDP (12.5 mg/kg) + DMFM (100 mg/kg)	CDDP (12.5 mg/kg) + DMFM (50 mg/kg)	CDDP (12.5 mg/kg) + DMFM (25 mg/kg)
Total protein (g/dl)	40.06 ± 0.36	21.25±0.43 ^{**}	36.67±0.45	35.82±0.38 ⁺⁺	35.00±0.32 ⁺⁺	34.76±0.32 ^{*,++}
ALT (U/l)	27.15 ± 1.41	65.83 ± 1.12 ^{****}	32.19±0.51 ^{*,++++}	37.70±0.49 ^{*,++++}	38.03±0.52 ^{*,++++}	39.98 ± 1.52 ^{*,++++}
ALP (U/l)	91.07 ± 1.33	180.65± 2.09 ^{***}	93.09 ± 1.10 ⁺⁺⁺	99.09± 1.24 ^{*,+++}	100.01 ± 1.32 ^{*,+++}	103.11±1.23 ^{*,++++}
AST (U/l)	25.67 ± 0.58	140.87±2.00 ^{****}	29.98 ± 0.39 ⁺⁺⁺	31.87 ±0.47 ^{*,++++}	33.87±0.42 ^{*,++++}	35.79 ±0.45 ^{*,++++}
Serum creatinine (mg/dl)	15.11 ± 0.43	83.55±0.99 ^{****}	20.09± 0.31 ^{*,++++}	25.15 ± 0.29 ^{*,++++}	28.12 ± 0.41 ^{*,++++}	29.01 ± 0.39 ^{*,++++}
Urea (mg/dl)	24.98 ± 0.49	86.97±1.01	28.11 ± 0.30 ⁺⁺⁺⁺	30.22± 0.35 ^{*,++++}	32.09± 0.16 ^{*,++++}	35.01± 0.26 ^{*,++++}

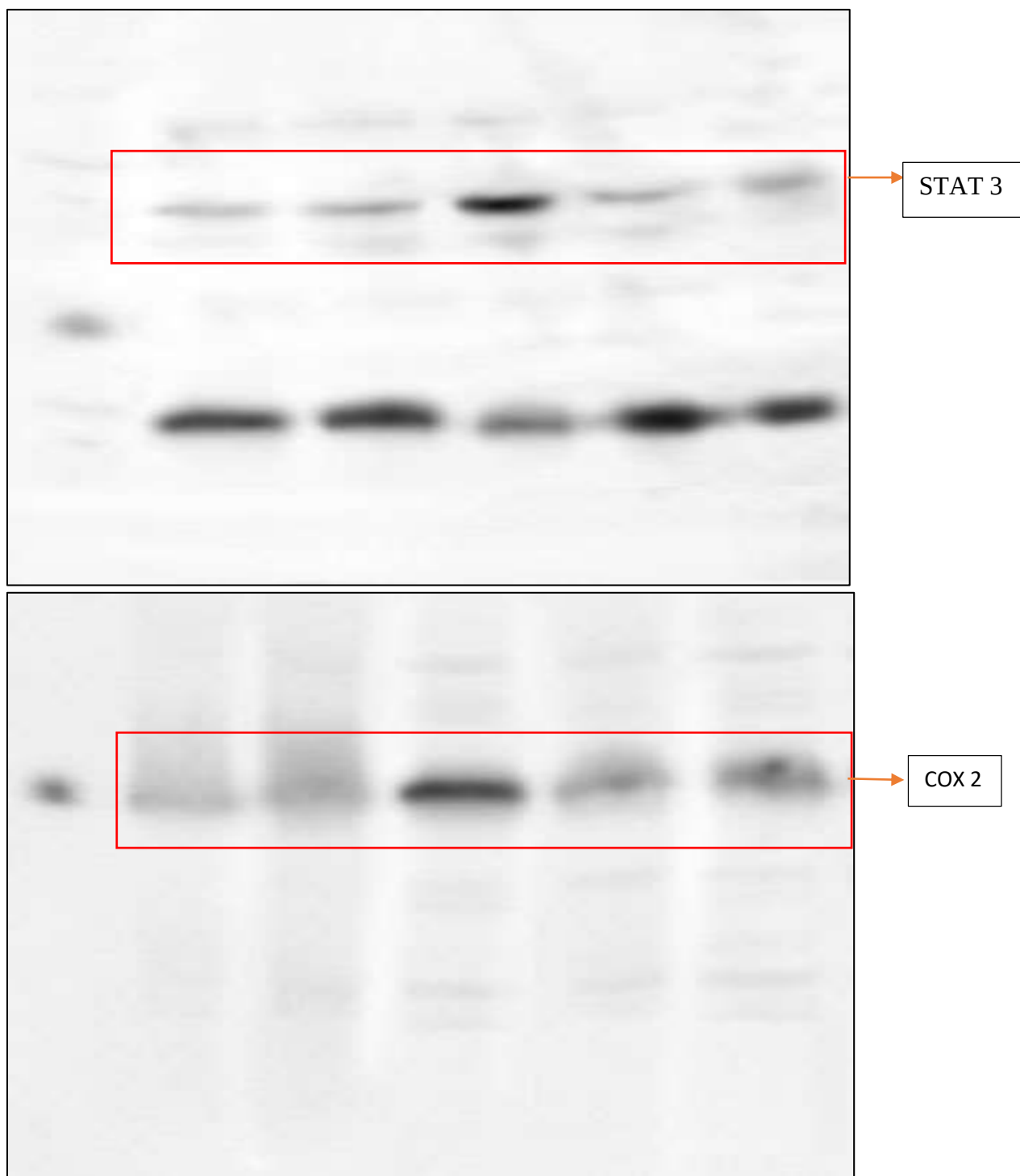
Effect of CDDP on liver function biomarkers (ALT, ALP and AST) indicated significant upsurge in tested parameters. DMFM at all tested doses significantly protected the abnormal increase in serum ALT, AST and ALP levels. Moreover, Cisplatin (CDDP, 12.5mg/kg, i.p.) induced significant elevation ($P > 0.001$) in urea and creatinine level after 72 h of administration in comparison to saline group. DMFM administration prior to CDDP inoculation at various dose (200, 100, 50 and 25 mg/kg b.w) significantly ($p < 0.001$) lower the upsurge of biomarkers in serum. The level of various biomarkers in DMFM treatment groups was noted to be balanced up to normalize the levels. Lower tested dose (25mg/kg b.w) showed significant efficiency against CDDP as highest tested doses. Values expressed as mean ± SEM ($n=3$). *, **, **** indicates significant difference at $p < 0.05$, $p < 0.001$ and $p < 0.0001$ from saline group whereas ++, ++++

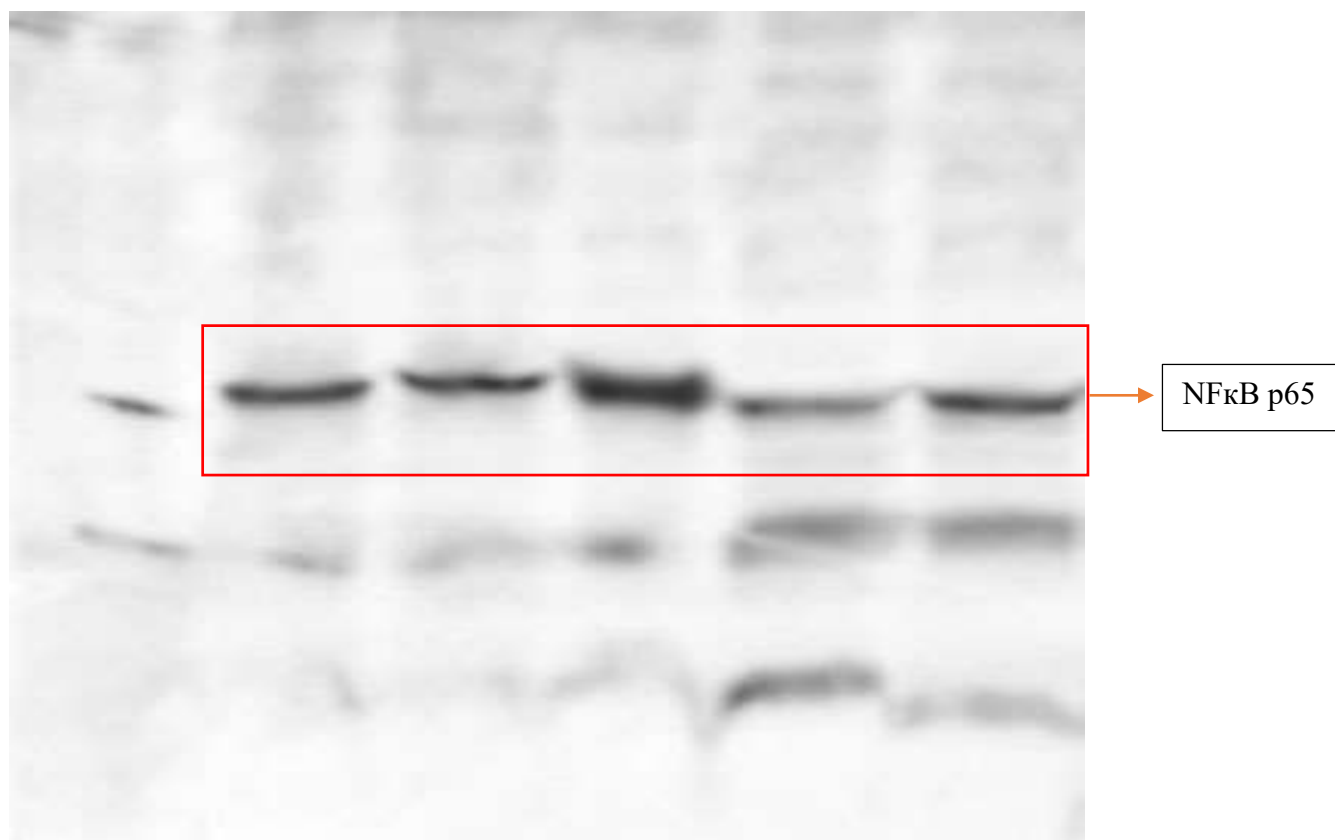
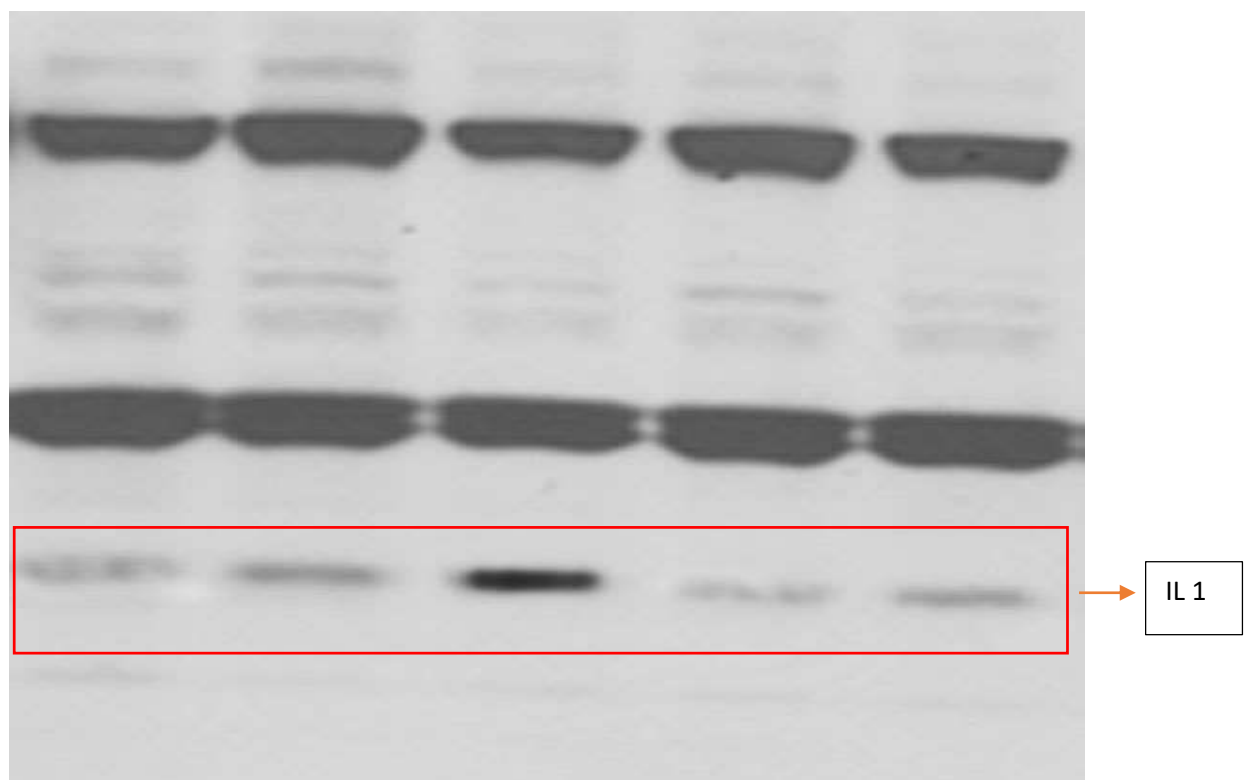
indicates significant difference at $p < 0.001$ and $p < 0.0001$ from CDDP (125 mg/kg b.w) group. (One-way ANOVA followed by Tukey's multiple comparison tests).

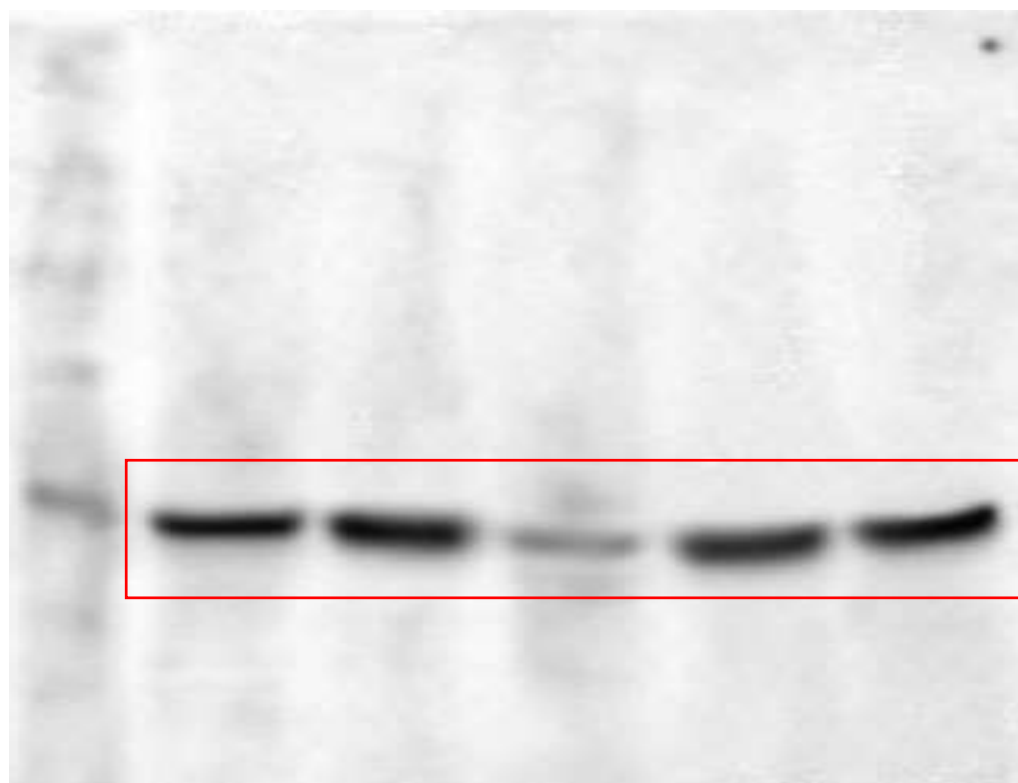
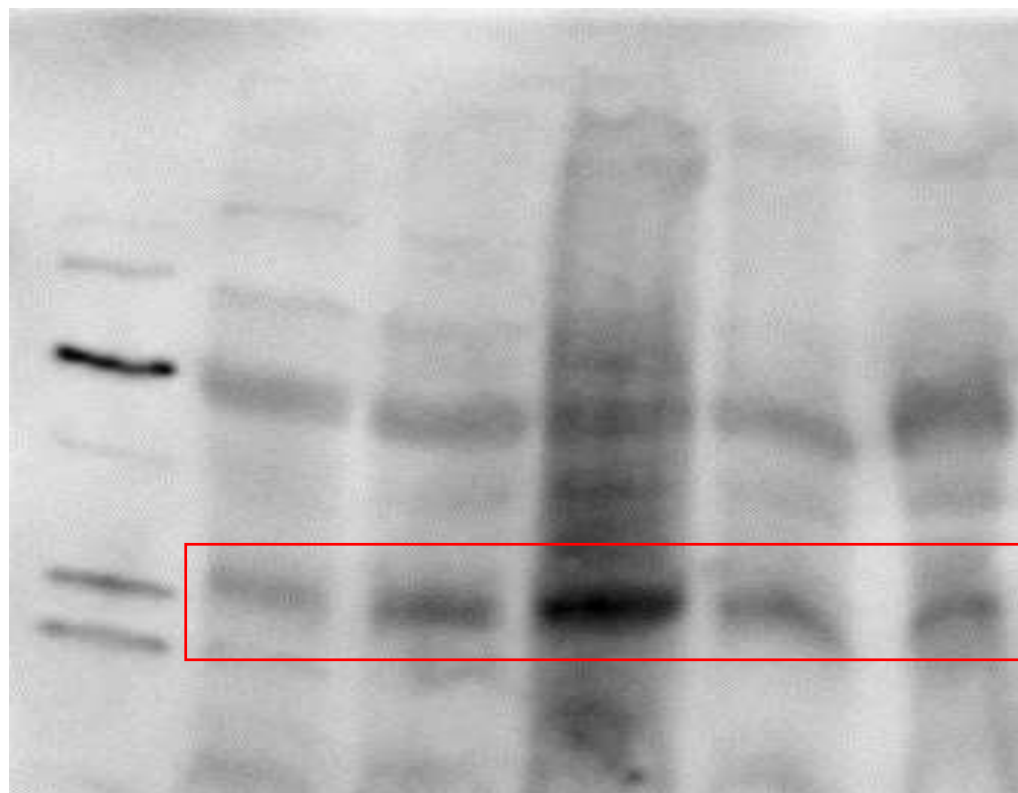
Supplementary file S1: Raw western blot data

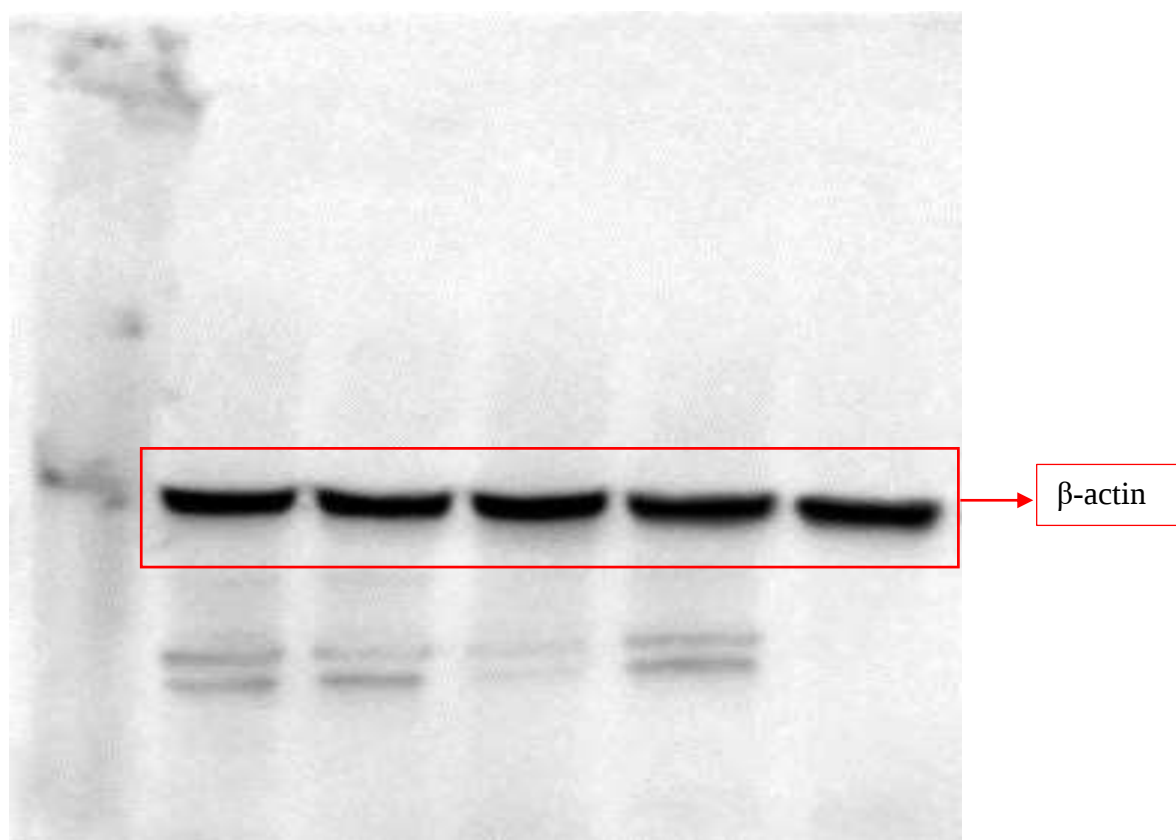
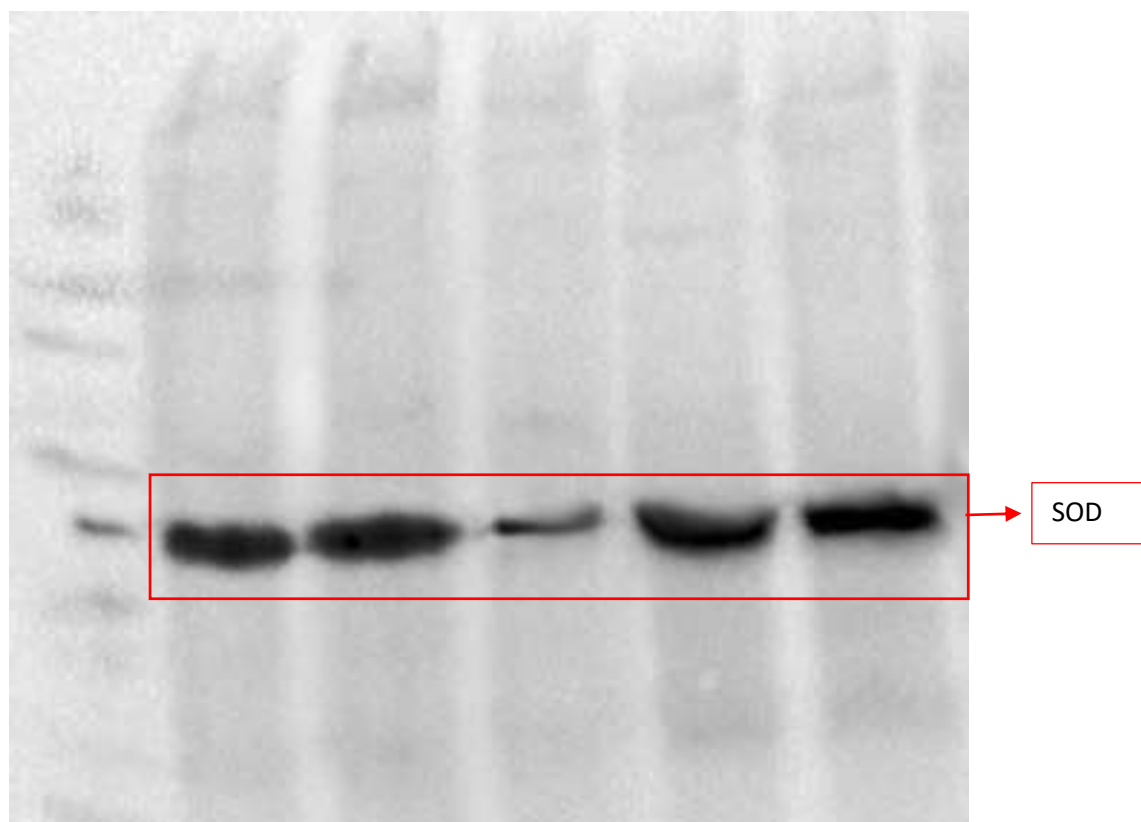
Liver

Western blot images

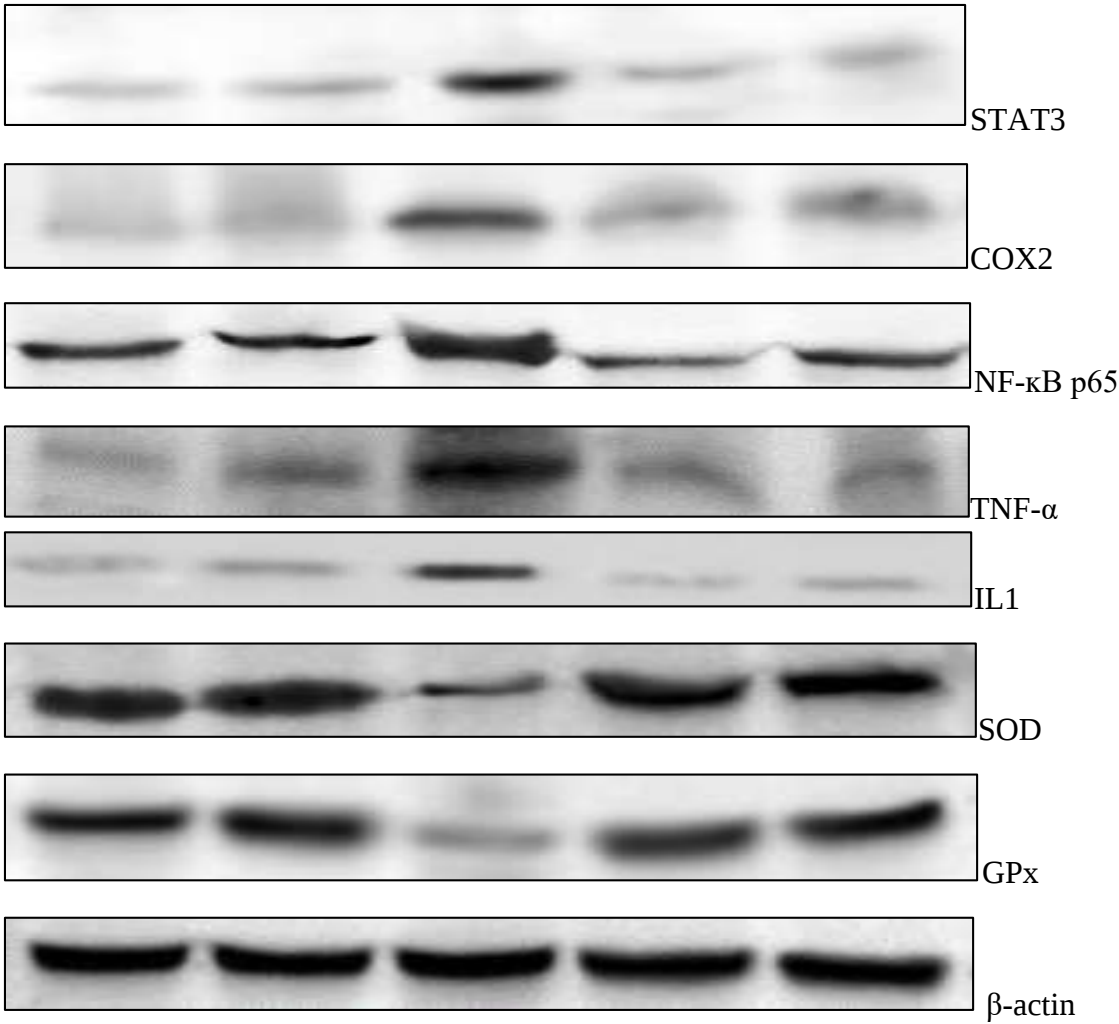






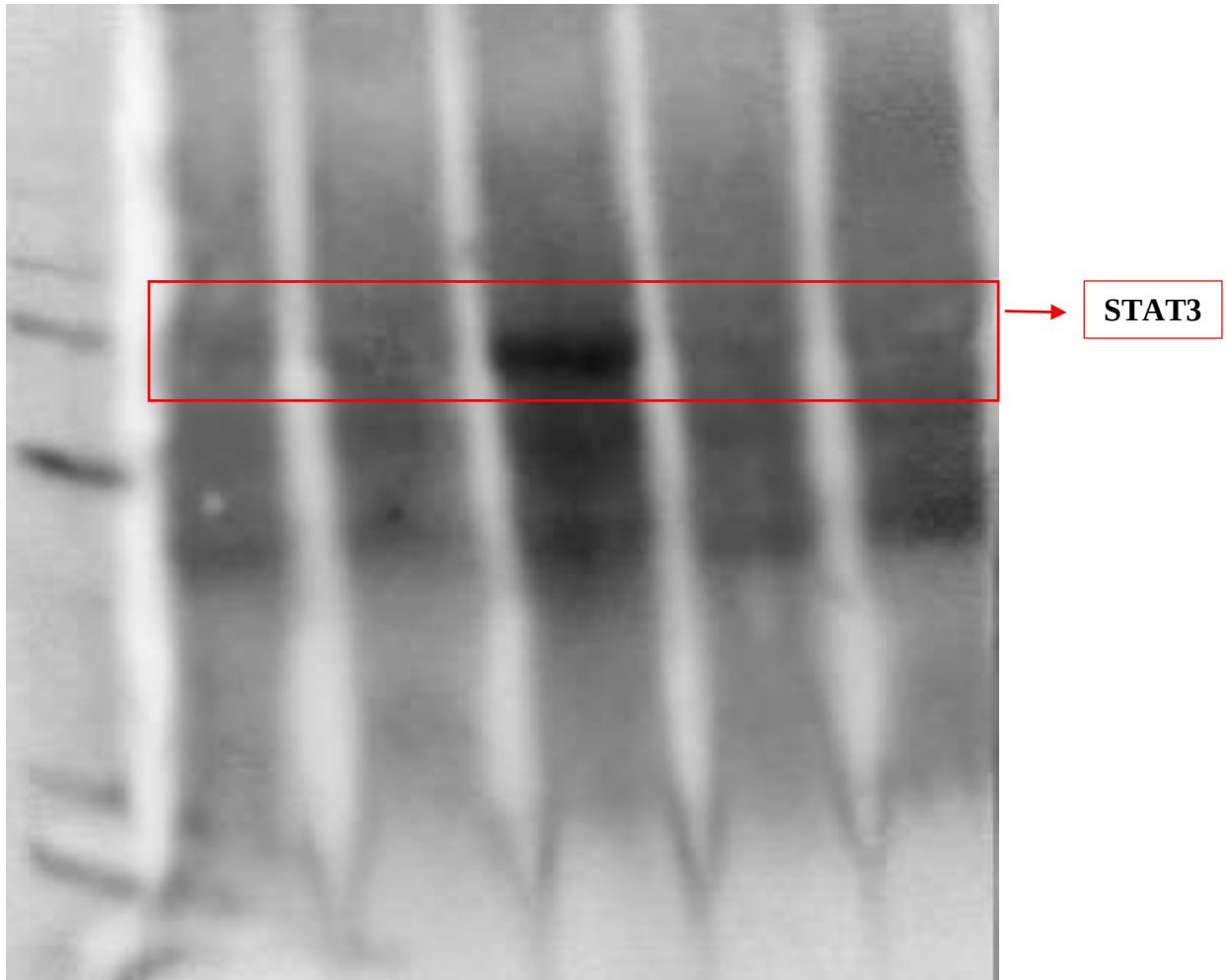


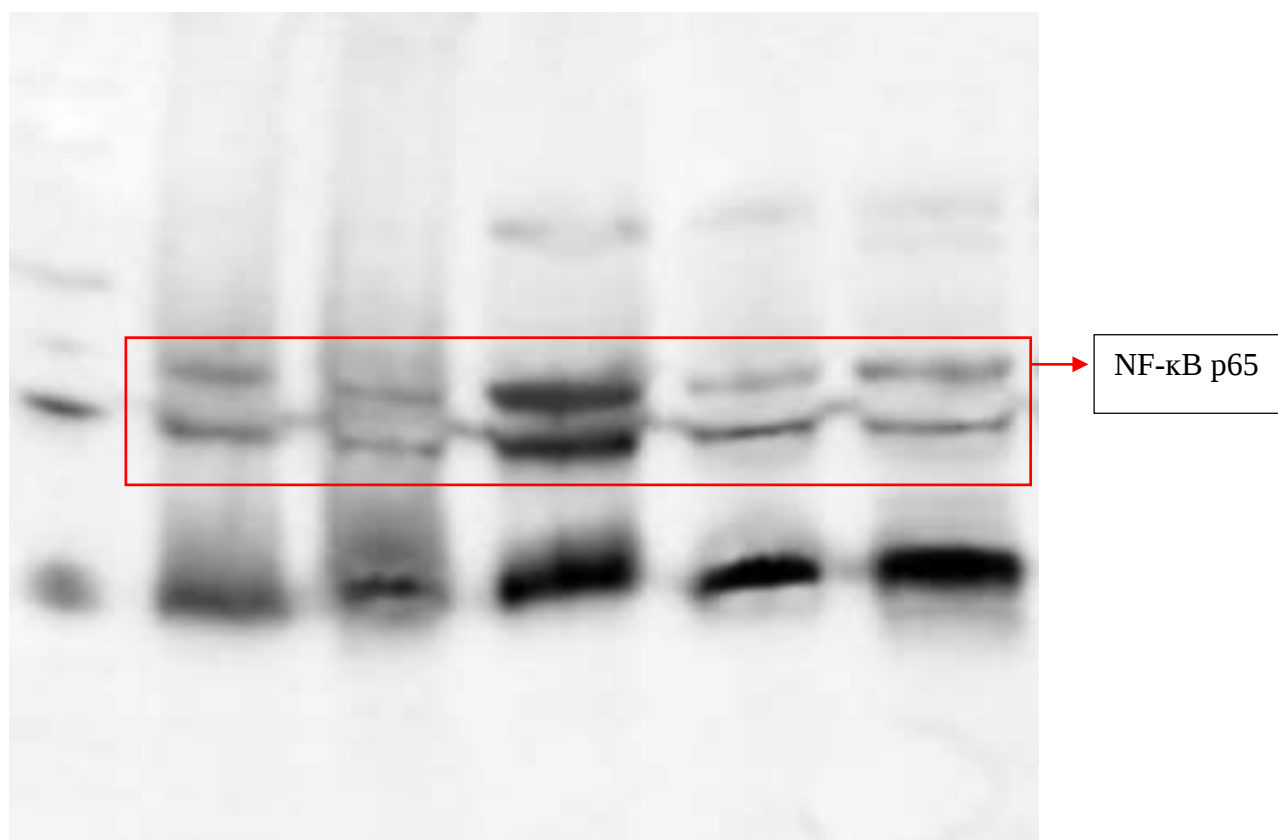
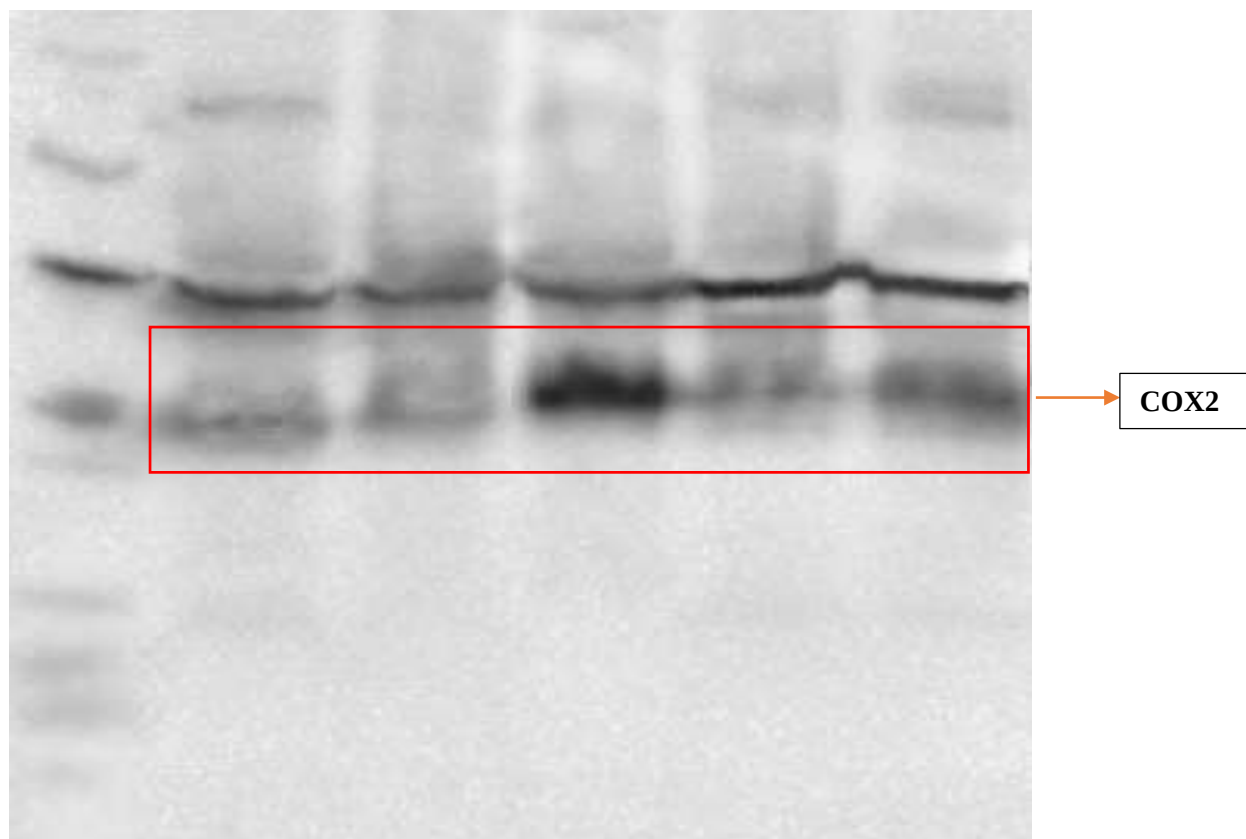
Liver cropped images

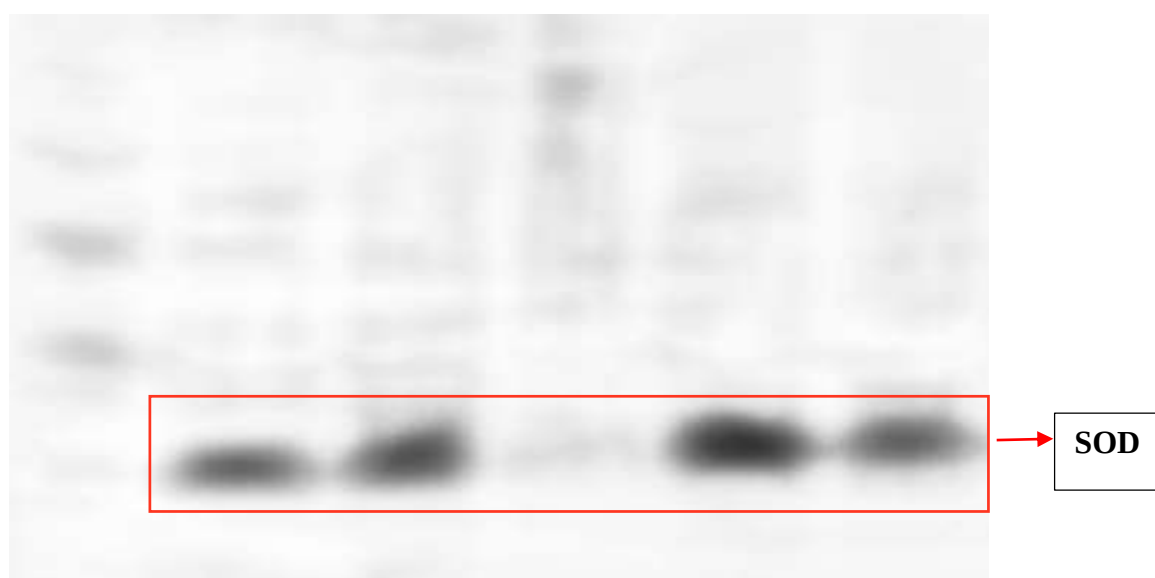
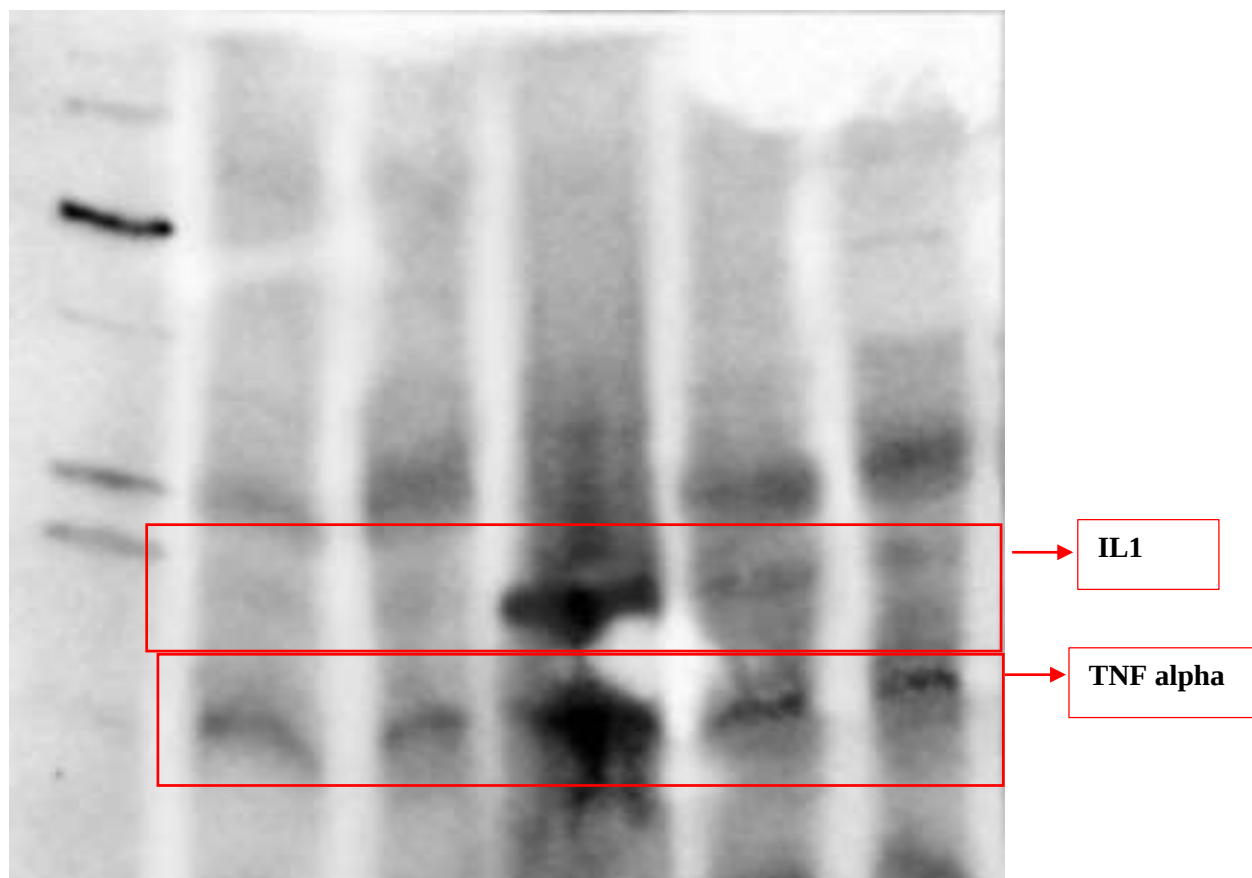


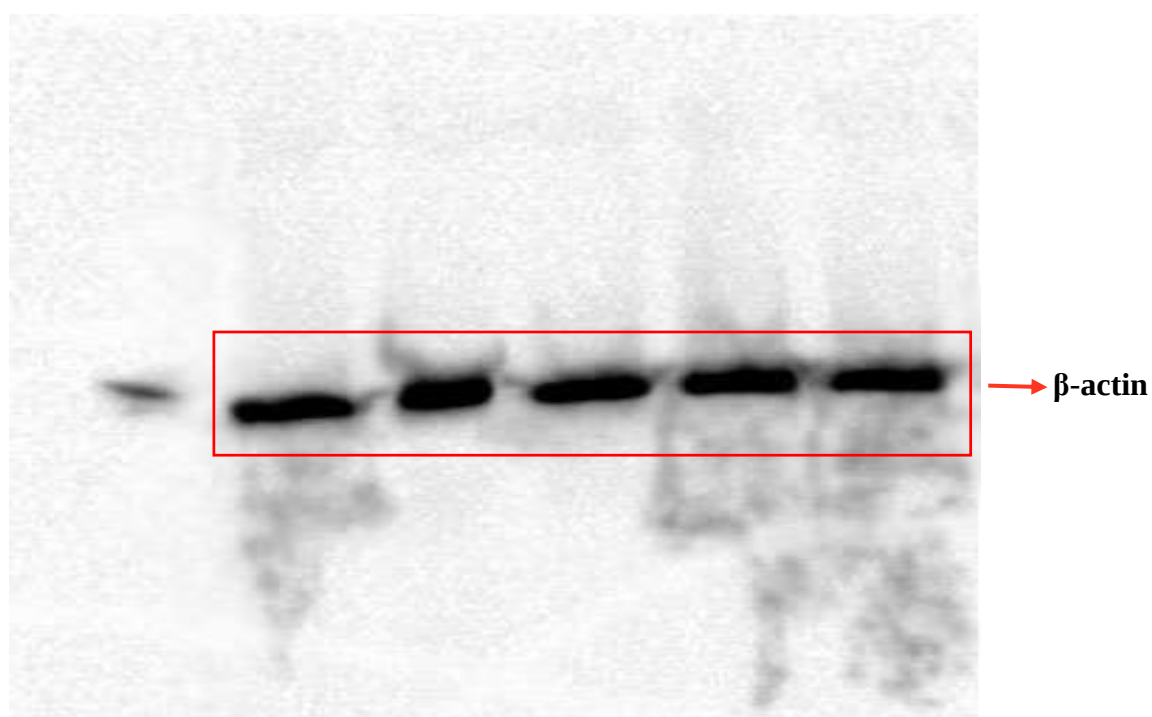
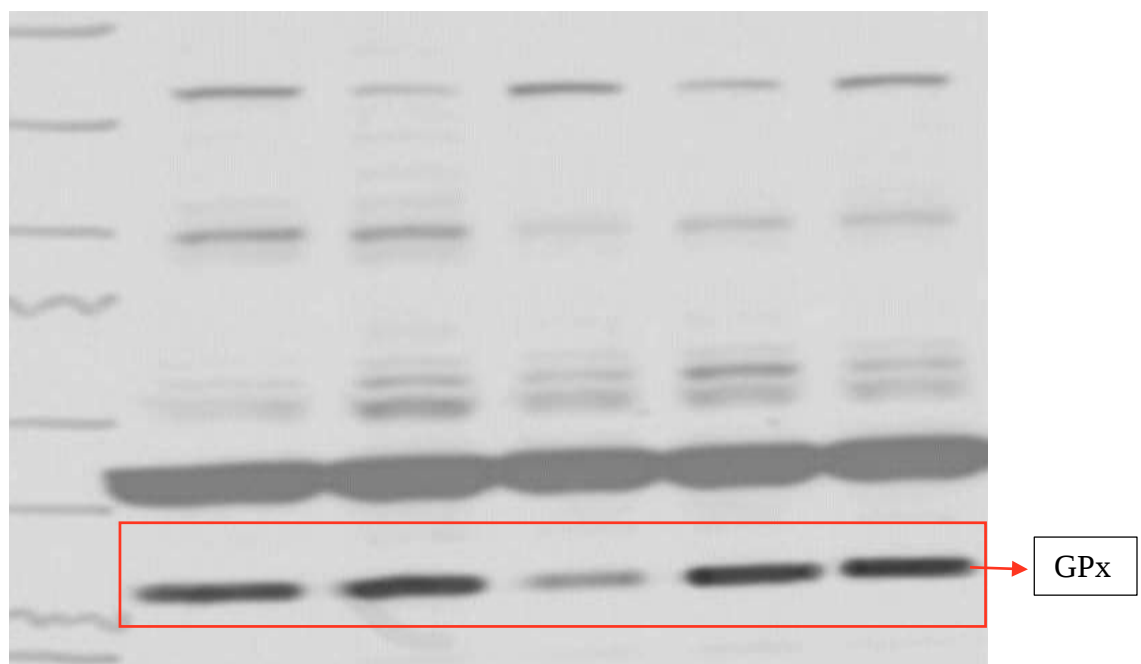
Heart

western blot images

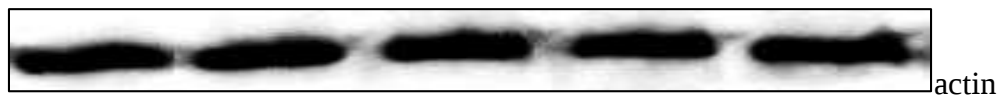
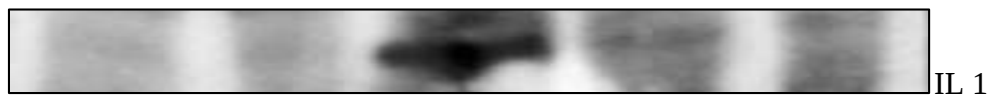
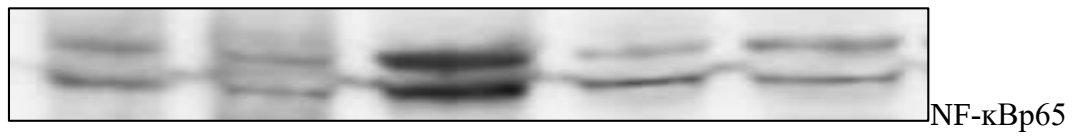
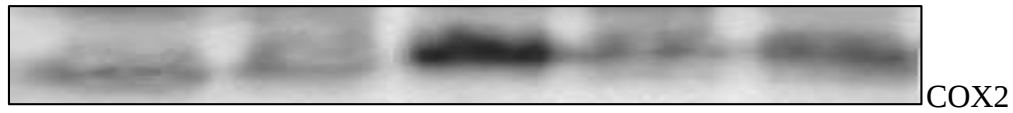
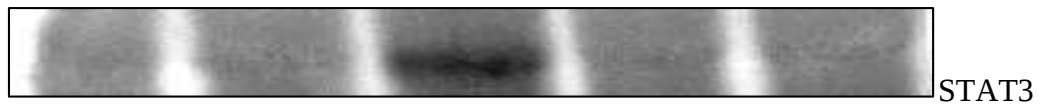




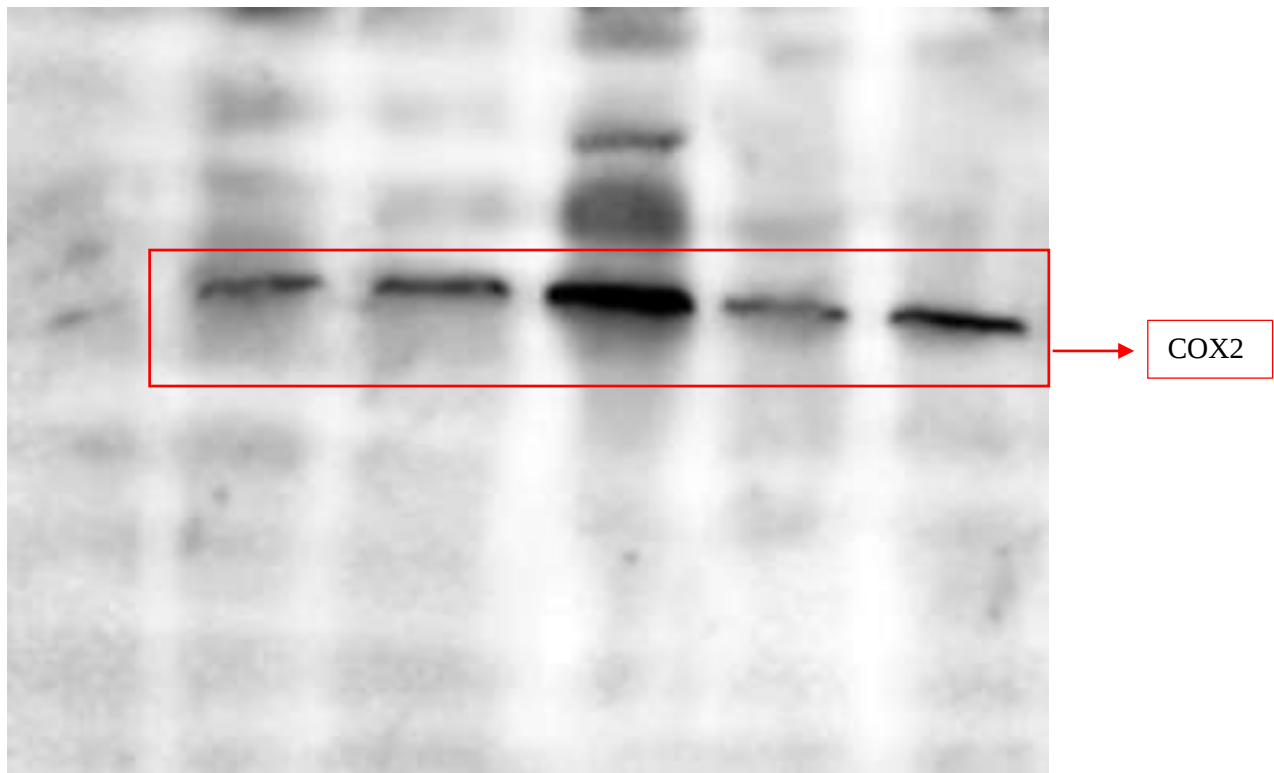


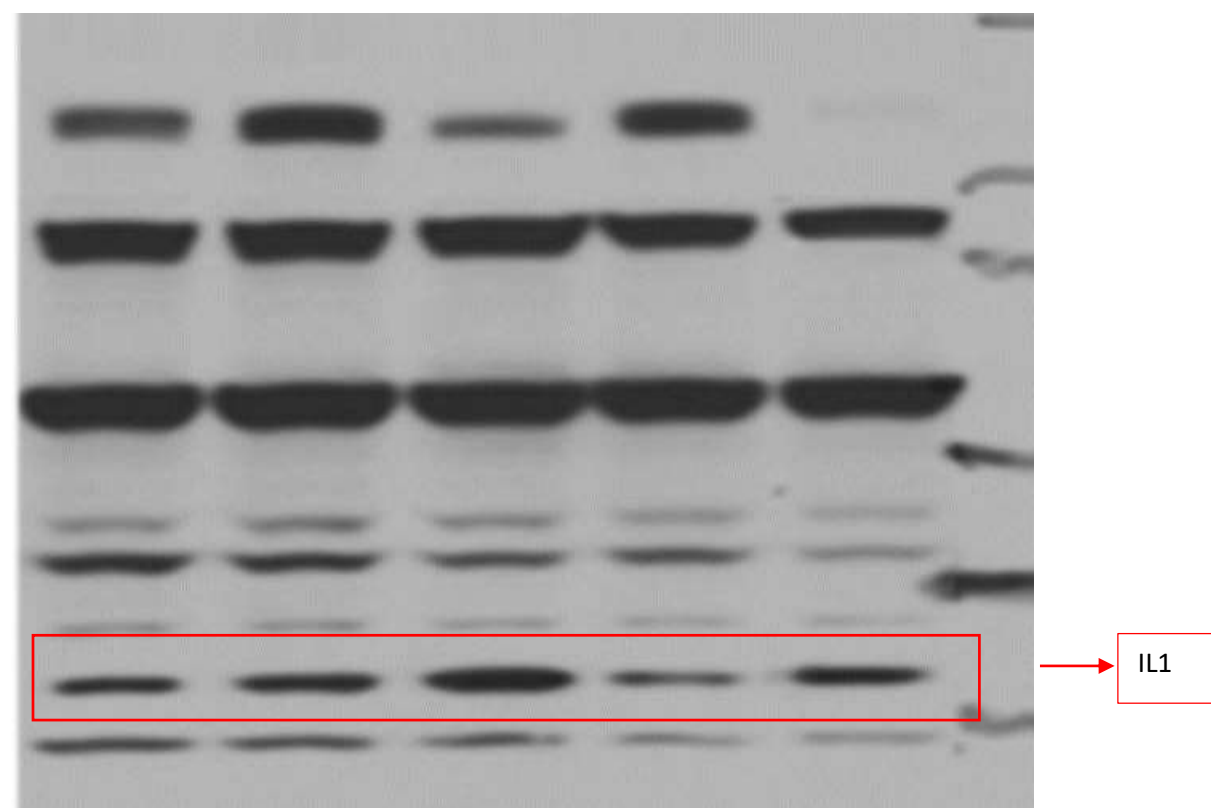
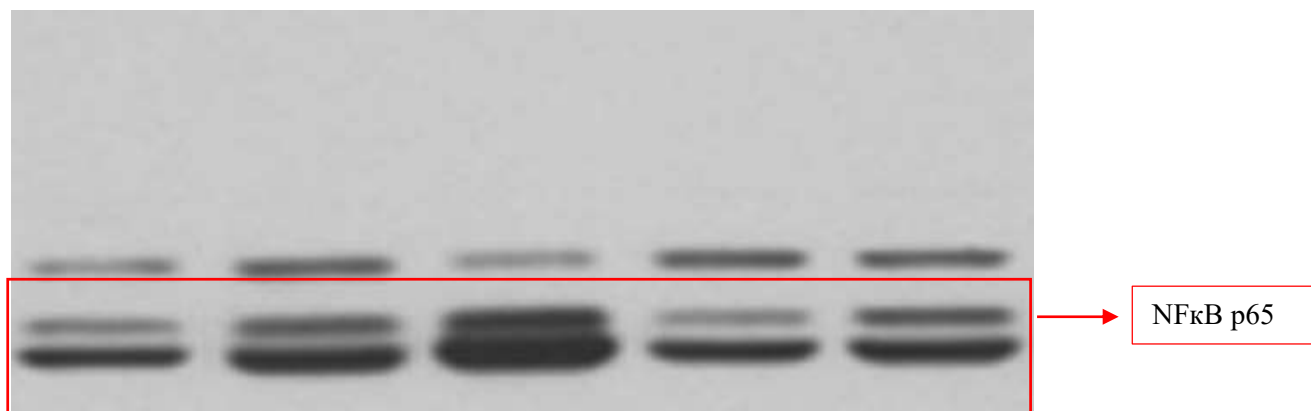


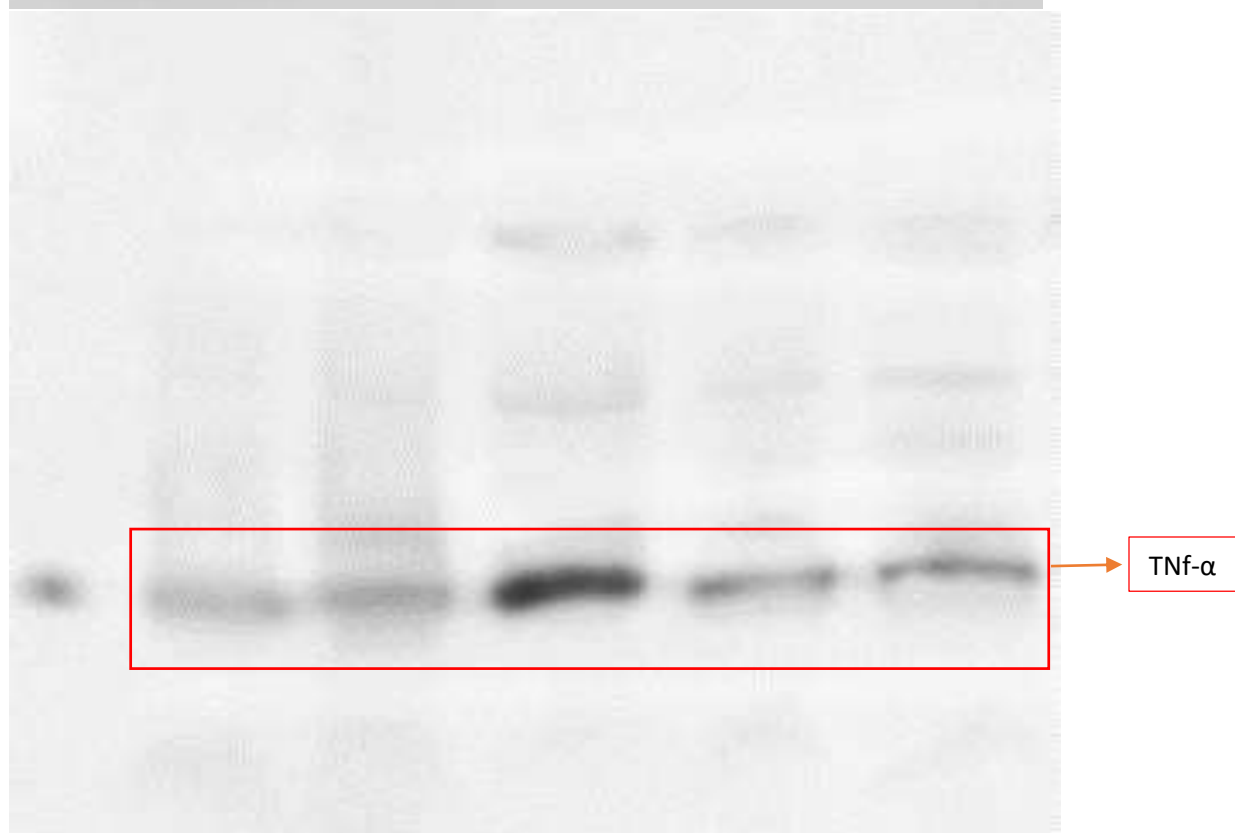
Cropped images heart

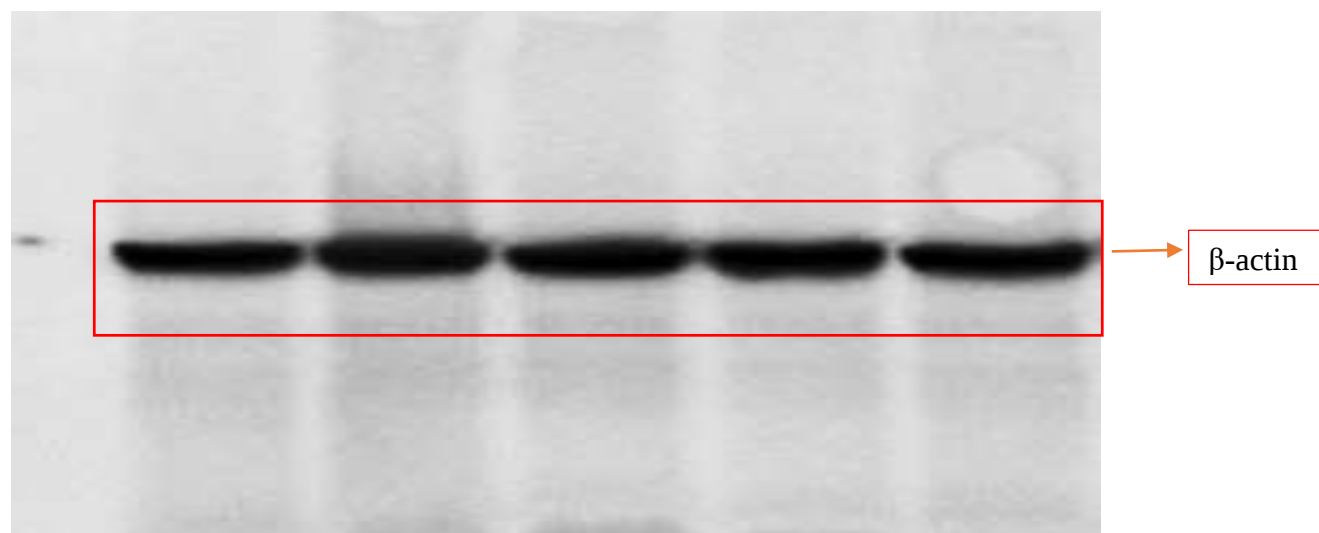
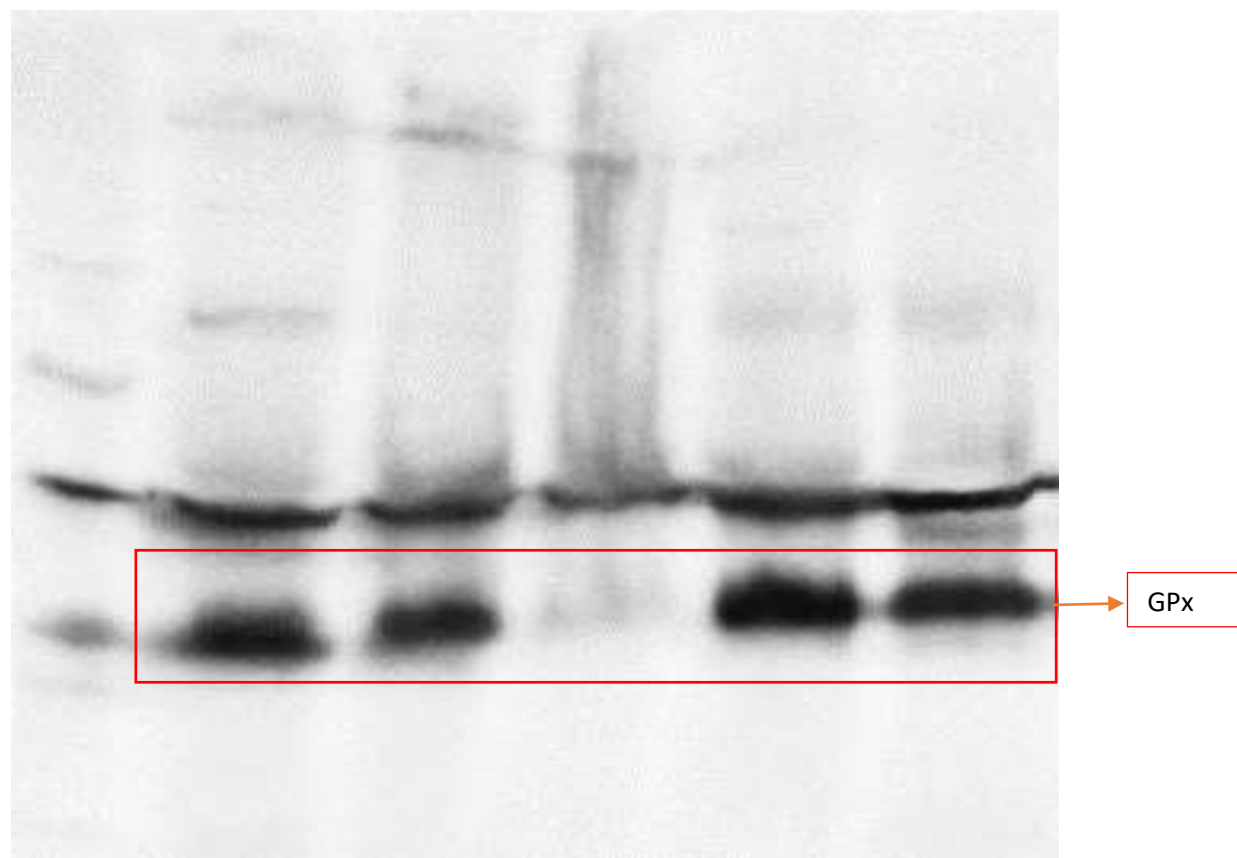


Kidney

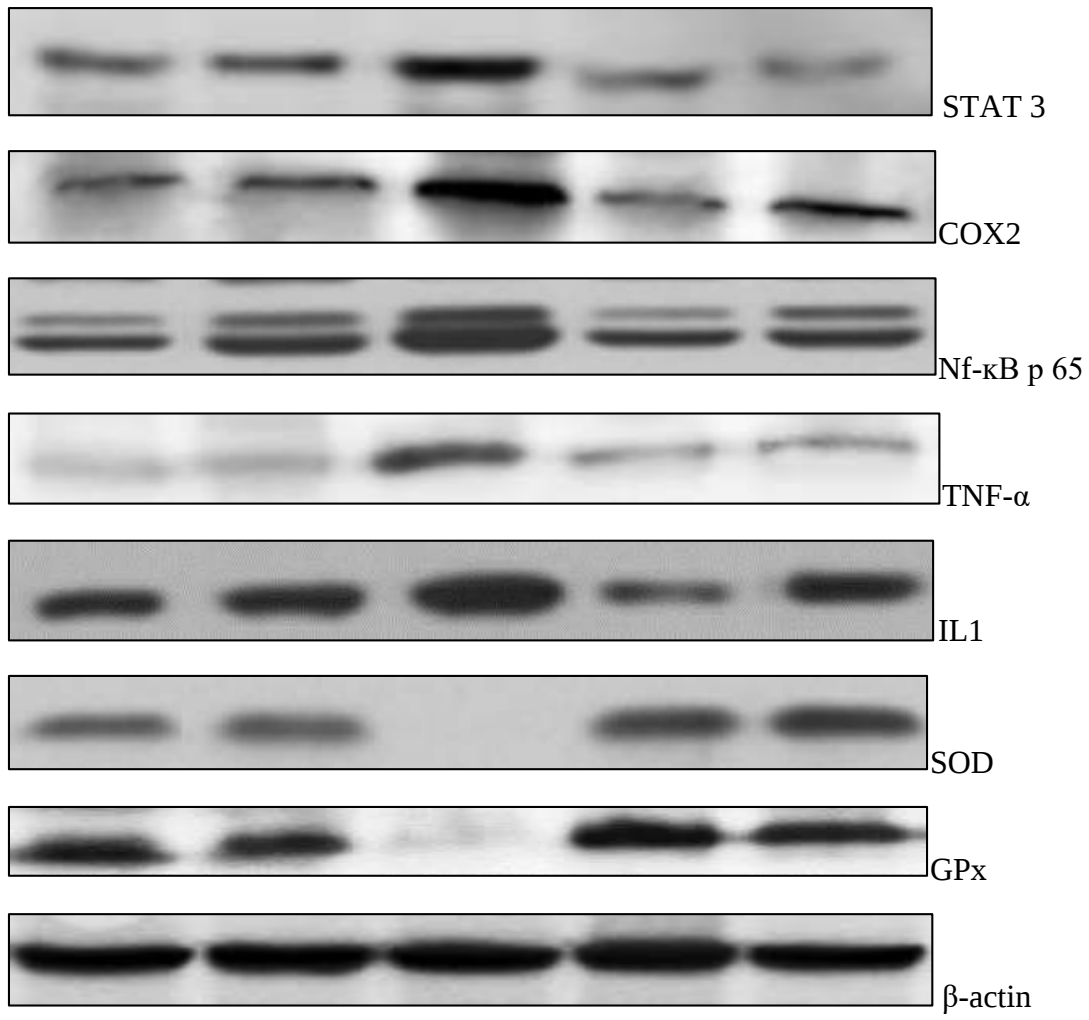




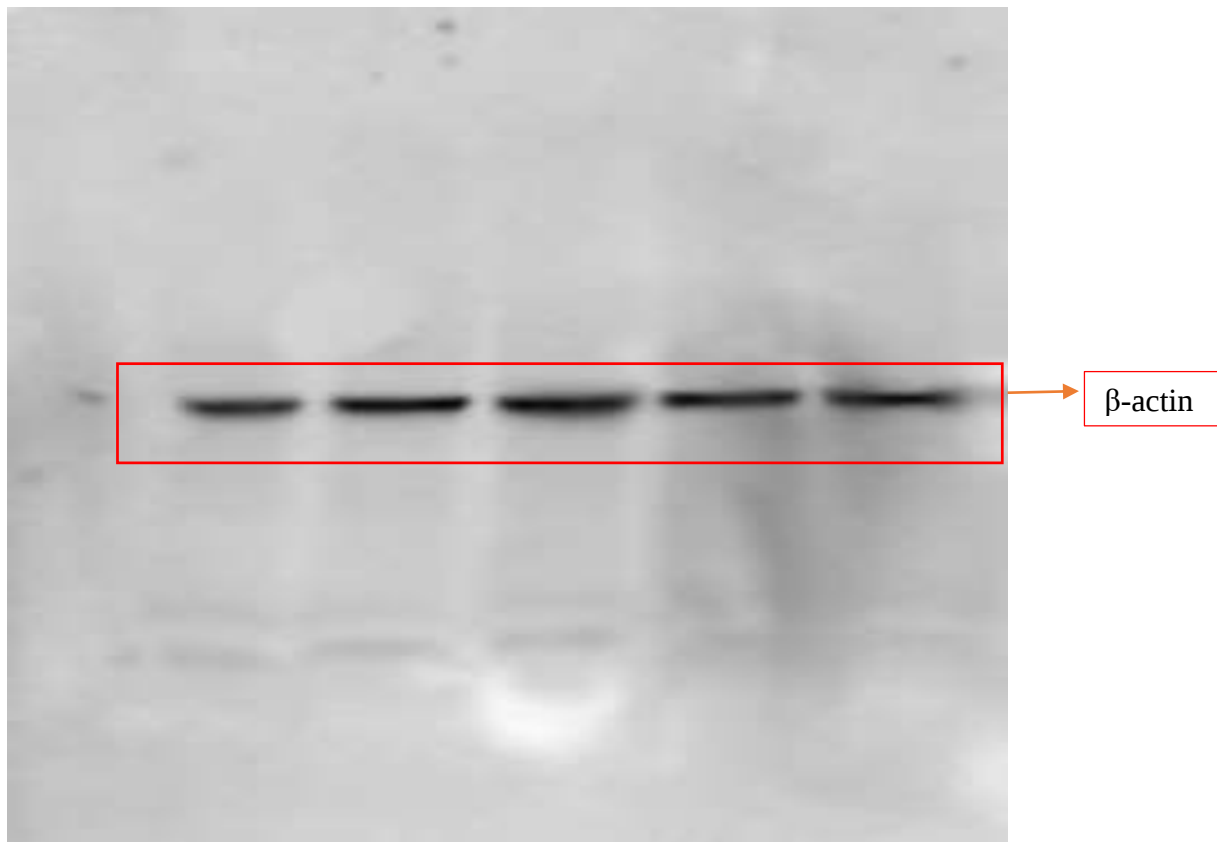


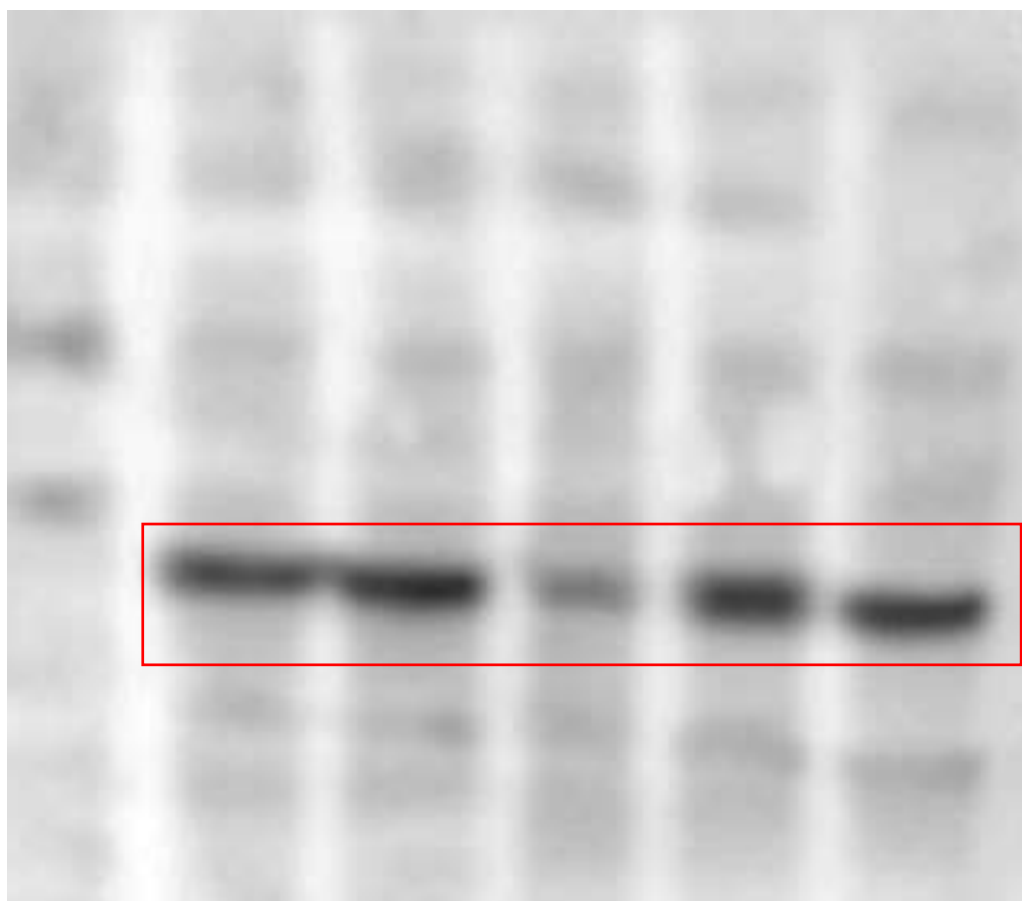


Cropped images kidney

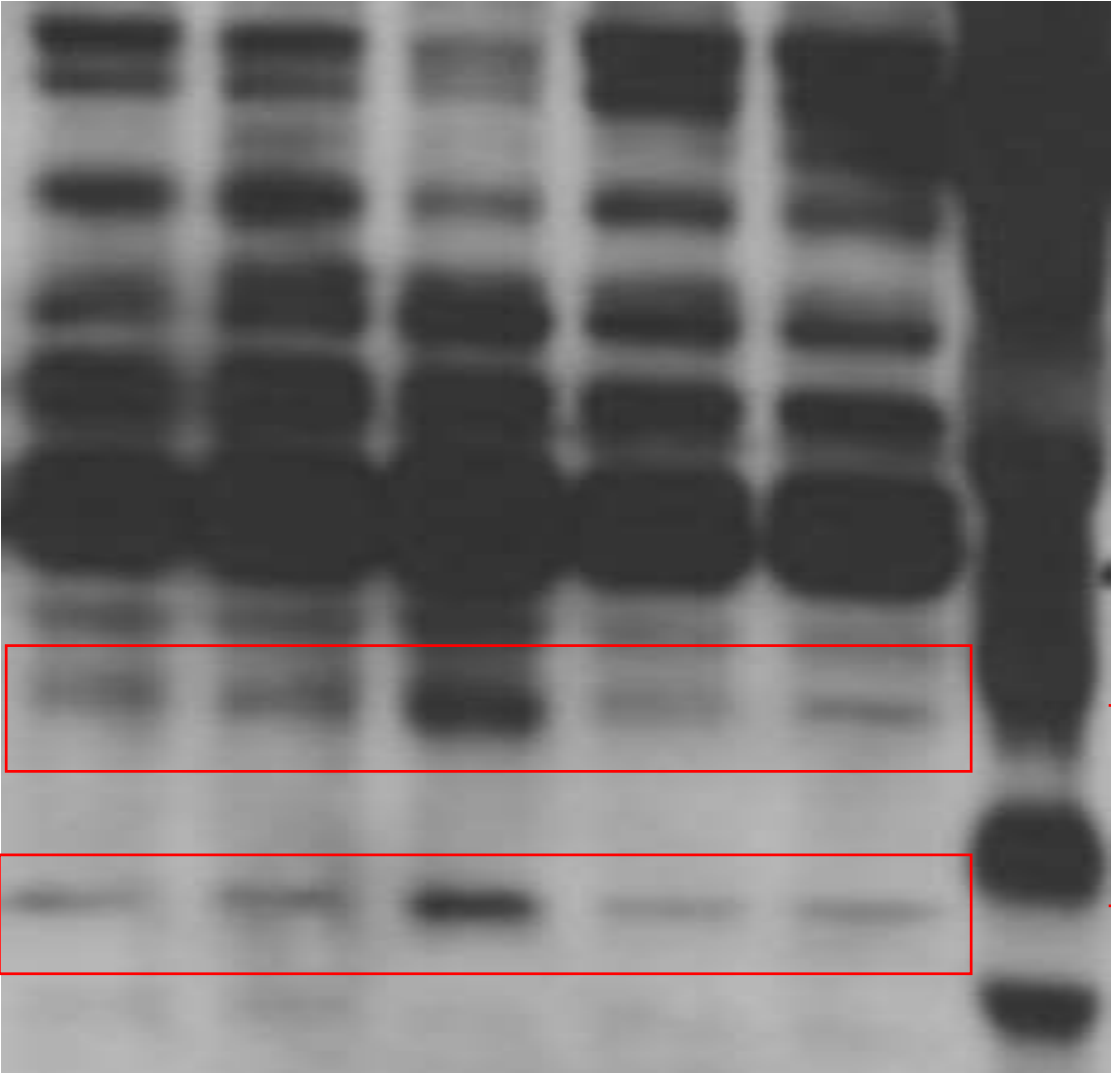


Brain





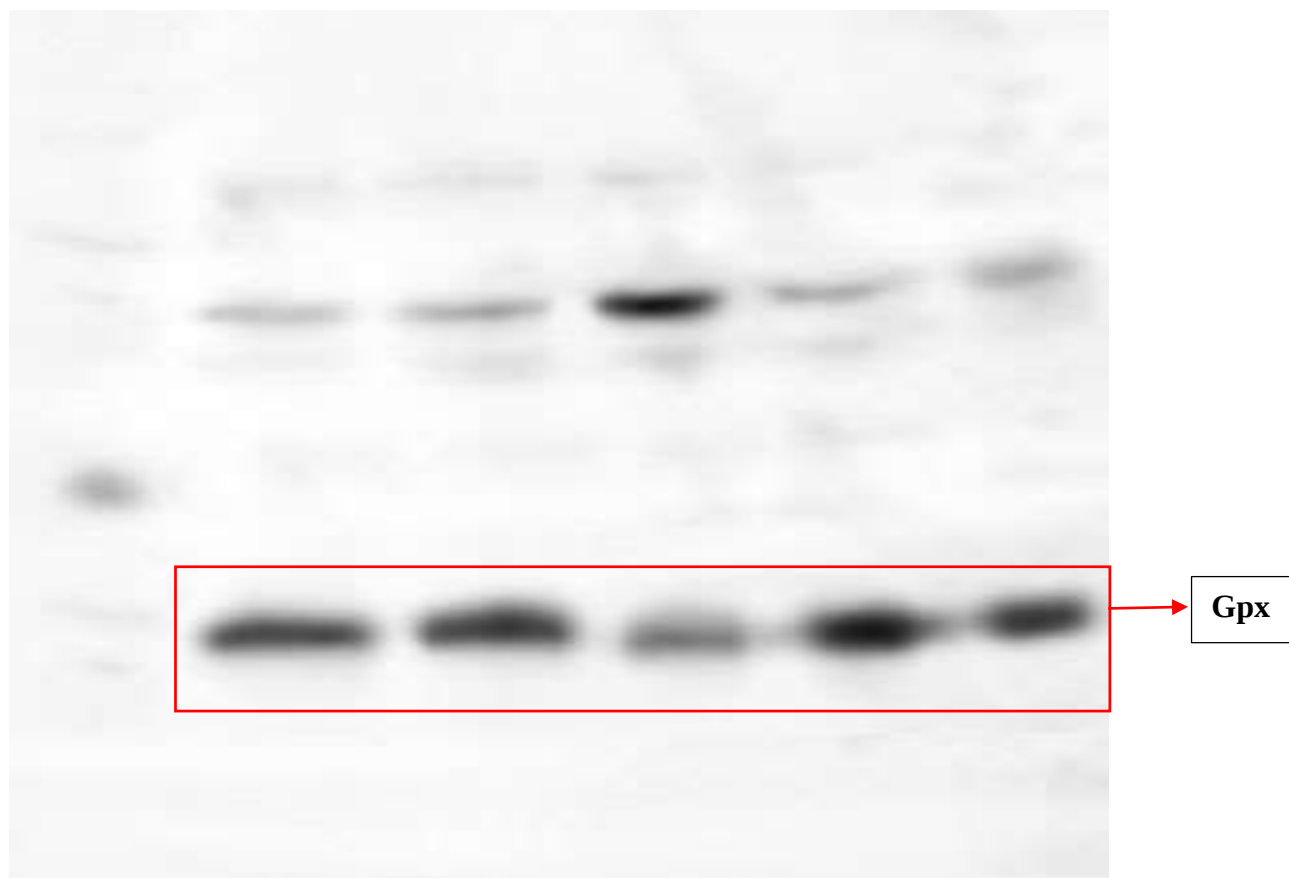
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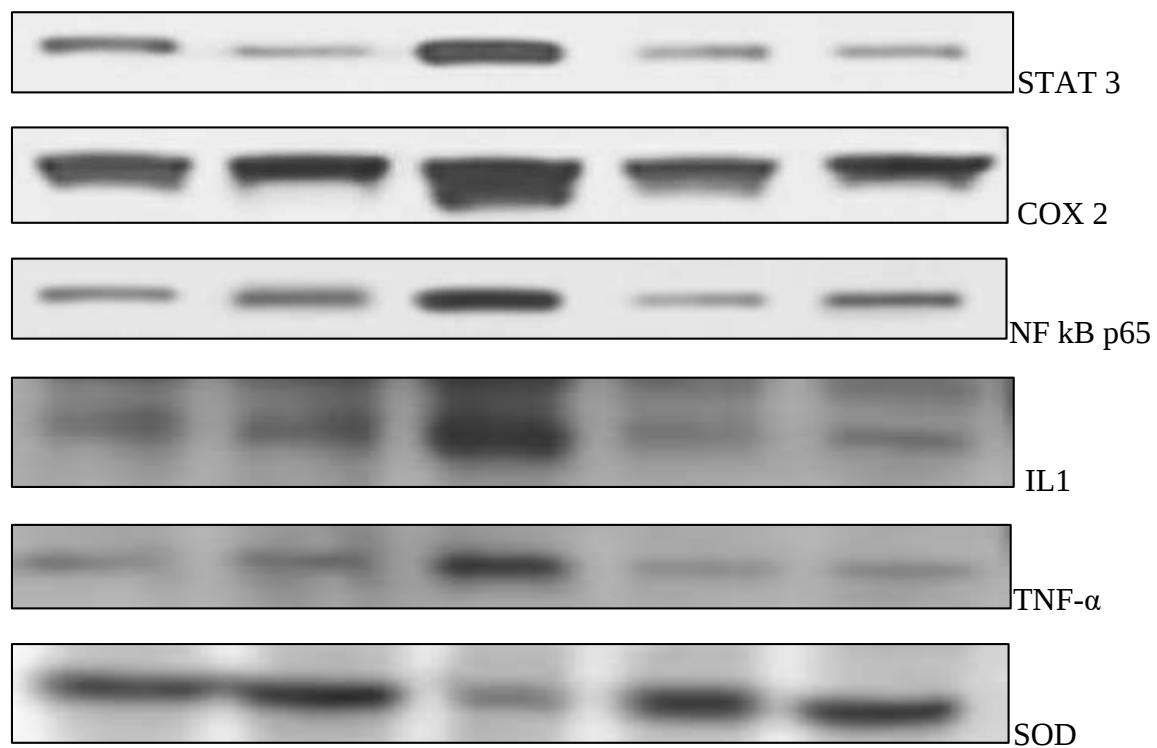
IL1

TNF- α





Cropped blots brain



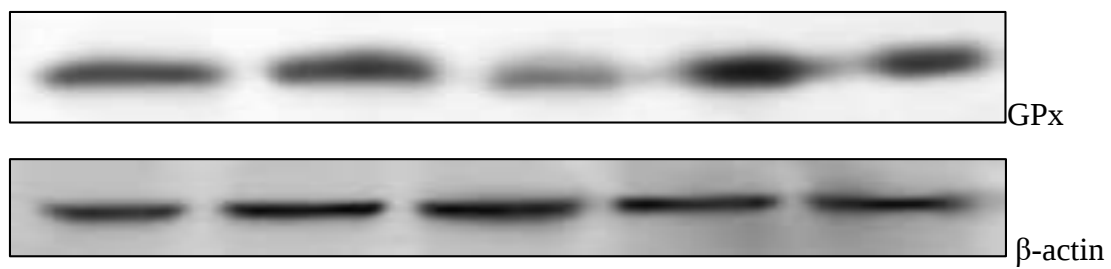


Figure2 S1: Raw data of cropped gels and cropped