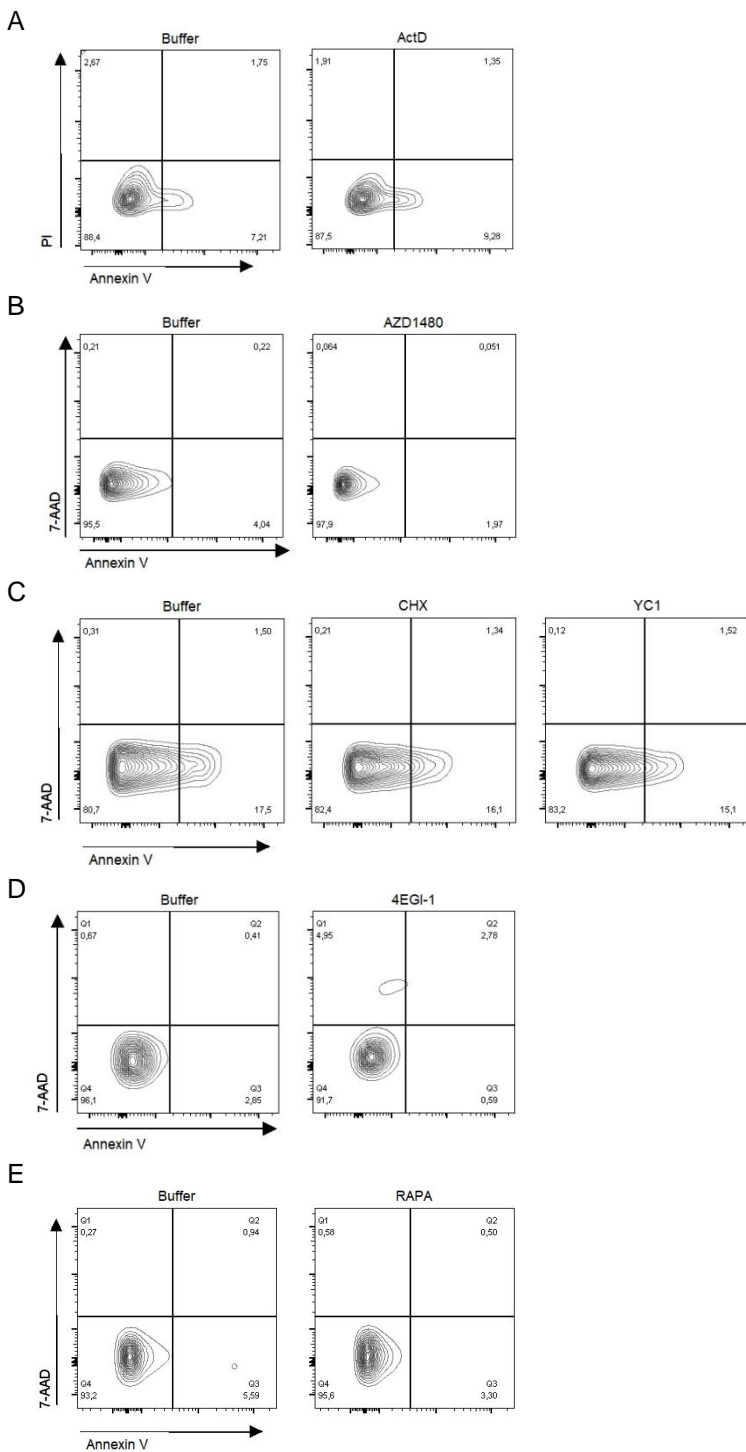


## Supplementary Material - Table of Contents

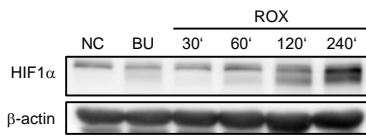
Supplementary Figure 1	Exclusion of reagent toxicity.	P. 2
Supplementary Figure 2	Time course of HIF1 $\alpha$ protein expression and HIF2 $\alpha$ absence.	P. 3
Supplementary Figure 3	The HIF1 $\alpha$ target gene VEGFA is not upregulated in suspended neutrophils.	P. 4
Supplementary Figure 4	Monoclonal $\beta_2$ -integrin antibodies do not interfere with HIF1 $\alpha$ transcription.	P. 5
Supplementary Figure 5	A blocking monoclonal PECAM-1 antibody does not reduce HIF1 $\alpha$ protein expression.	P. 6
Supplementary Figure 6	Uncropped Immunoblots.	P. 7-14



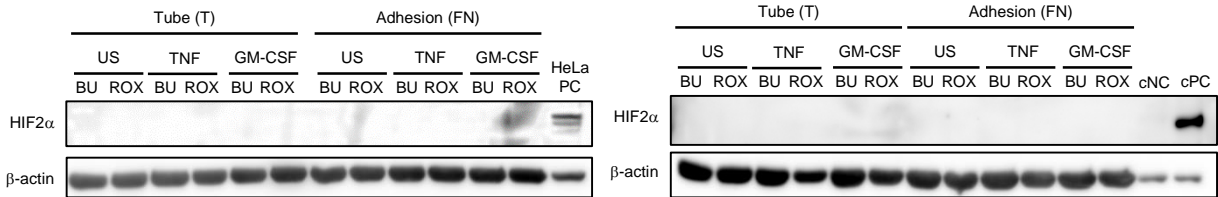
### Supplementary Figure 1. Exclusion of reagent toxicity.

Using freshly isolated human neutrophils, no increased cytotoxicity was observed within 4h as compared to the appropriate buffer control with regards to 5  $\mu\text{g/ml}$  Actinomycin D (ActD) (**A**), 1 $\mu\text{M}$  AZD1480 (**B**), 2,5 $\mu\text{g/ml}$  cycloheximide (CHX), 10 $\mu\text{M}$  YC1 (**C**), 25 $\mu\text{M}$  4EGI-1 (**D**), and 100nM rapamycin (RAPA) (**E**). Note that we used propidium iodide (PI) to stain necrotic neutrophils in (**A**) as 7-AAD measurement is imprecise due to remarkable spectral overlap with ActD emitted fluorescence.

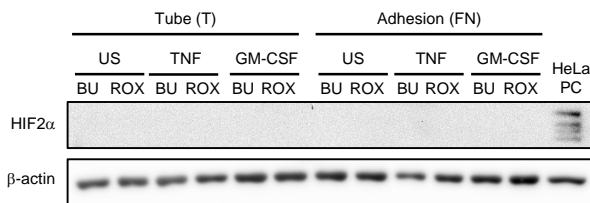
**A**



**B**



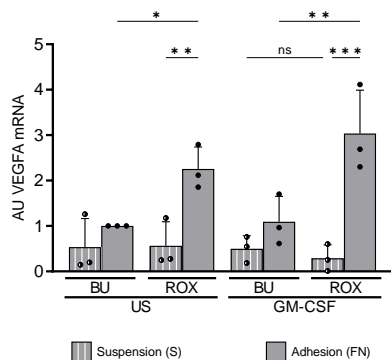
**C**



**Supplementary Figure 2. Time course of HIF1α protein expression and HIF2α protein absence.**

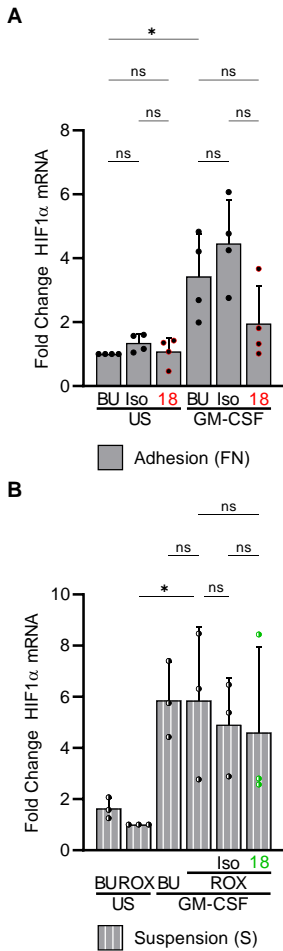
(A) Freshly isolated human neutrophils were treated with buffer (BU) or 15 μM roxadustat (ROX) for the indicated time points prior to immunoblotting. A representative blot is shown.

(B) Representative HIF2α immunoblots of freshly isolated human neutrophils (B) and monocytes (C) stimulated with 2ng/ml TNFα, 20ng/ml GM-CSF or without (US) in the absence (BU) or presence of 15 μM ROX for 4h are demonstrated. Antibodies in experiments to detect HIF2α were as follows: clone ep190b (1:500, Novus Biologicals), rabbit polyclonal NB100-122 (1:500, Novus Biologicals), and rabbit polyclonal PA1-16510 (1:500, Thermo Fisher Scientific, Waltham, USA). Commercial negative (cNC) and positive lysates (cPC, CoCl<sub>2</sub>-treated HepG2 cells) were purchased from Cell Signaling Technology (#94790, Leiden, The Netherlands). Our own positive control (HeLa PC) was prepared by 100ng/ml IFNα and 15 μM ROX treatment of HeLa cells for 2h prior to protein isolation in accordance with the protocol used for myeloid cells.



**Supplementary Figure 3. The HIF1 $\alpha$  target gene VEGFA is not upregulated in suspended neutrophils.**

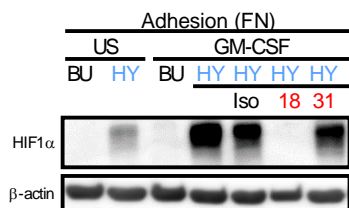
Freshly isolated human neutrophils were cultured on PolyHema-coated wells (hatched bars, Suspension (S)) or fibronectin(FN)-coated wells (gray bars, Adhesion (FN)) for 4h at 37°C, 5% CO<sub>2</sub> and treated with buffer (BU), 15 $\mu$ M roxadustat (ROX), 20ng/ml GM-CSF, and combinations thereof as indicated. Total RNA was isolated and mRNA expression of HIF1 $\alpha$  target gene VEGFA (was analyzed by qPCR. The BU condition in adherent neutrophils was set as reference. Statistical analysis was performed by repeated-measure one-way ANOVA with Šidák's multiple comparison test.



**Supplementary Figure 4. Monoclonal  $\beta_2$ -integrin antibodies do not interfere with HIF1 $\alpha$  transcription.**

(A) Freshly isolated human neutrophils were pre-incubated with 20 $\mu$ g of blocking monoclonal CD18 antibody (18) or isotype (Iso) for 30min on ice prior to 4h incubation on fibronectin(FN)-coated wells at 37°C with buffer (BU), 20ng/ml GM-CSF or without (US), or combinations thereof as indicated. Neutrophils were prepared for HIF1 $\alpha$  qPCR. The unstimulated BU condition was set as reference.

(B) Freshly isolated human neutrophils were pre-incubated with 10 $\mu$ g of activating monoclonal CD18 antibody (18) or isotype (Iso) for 30min on ice prior to 4h incubation on PolyHema-coated wells (Suspension (S)) at 37°C with BU, 15 $\mu$ M roxadustat (ROX), 20ng/ml GM-CSF, or combinations thereof as indicated. Neutrophils were prepared for HIF1 $\alpha$  qPCR. The ROX condition was set as reference. Statistical analysis was performed by repeated-measure one-way ANOVA with Šidák's multiple comparison test.



**Supplementary Figure 5. A blocking monoclonal PECAM-1 antibody does not reduce HIF1 $\alpha$  protein expression.**

Freshly isolated human neutrophils were pre-incubated with 20 $\mu$ g of blocking monoclonal CD18 antibody (18), blocking monoclonal CD31 antibody (31) or isotype (Iso) for 30min on ice prior to 4h incubation on fibronectin(FN)-coated wells at 37°C in normobaric hypoxia (1% O<sub>2</sub>, HY) with buffer (BU), 20ng/ml GM-CSF or without (US), or combinations thereof as indicated. Neutrophils were prepared for HIF1 $\alpha$  immunoblot. A representative experiment of n=2 is depicted.

Supplementary Figure 6. Uncropped Immunoblots.

Figure 1A

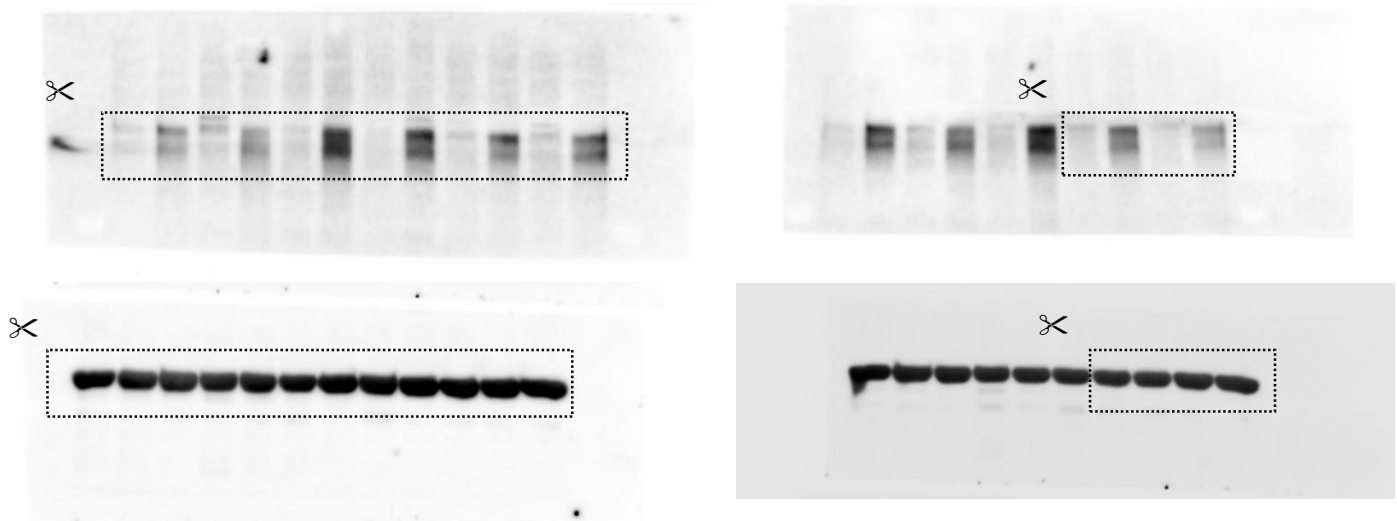


Figure 1B

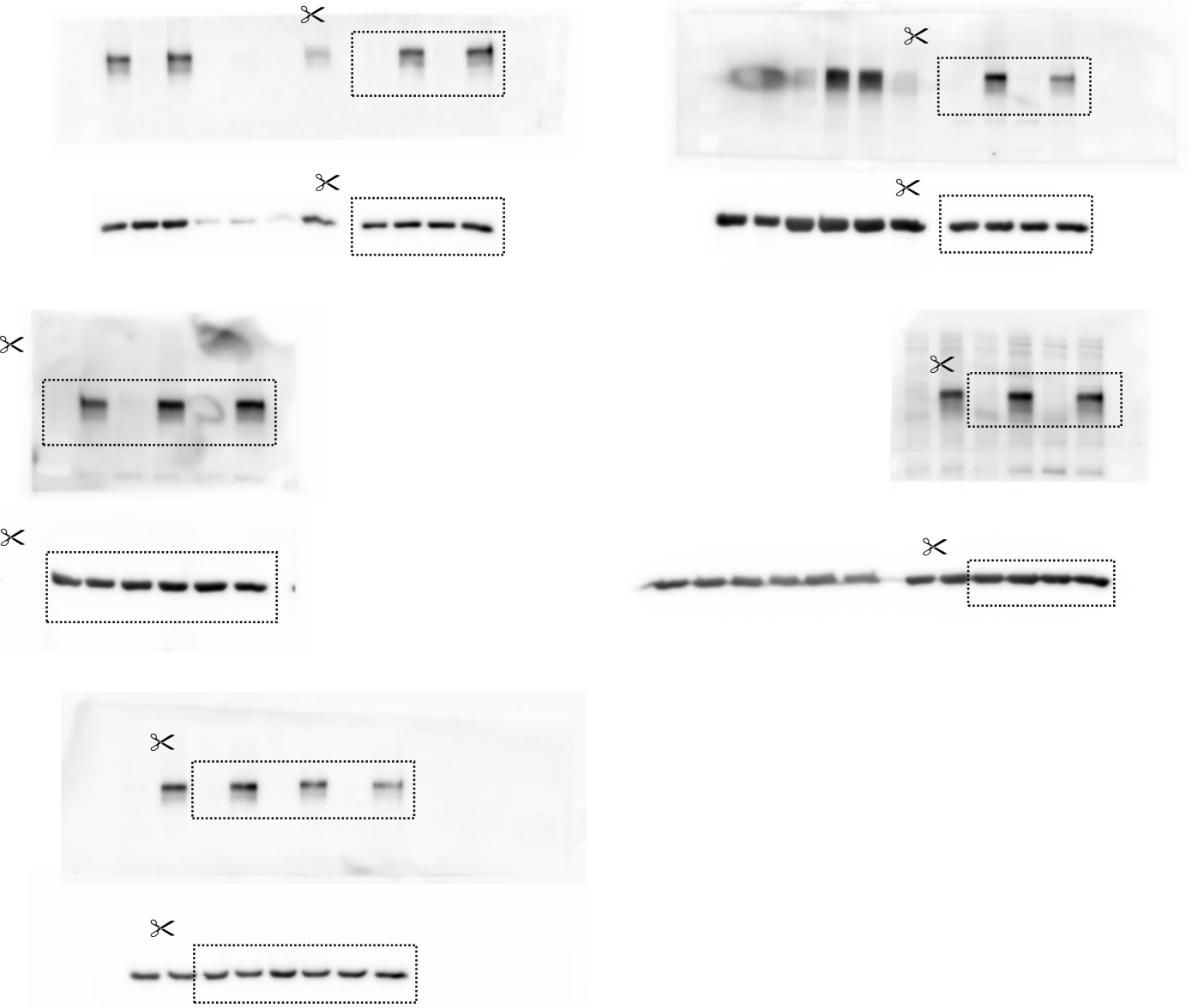


Figure 2A

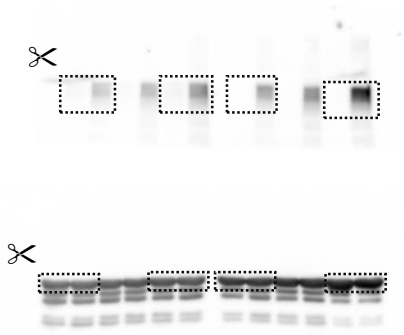


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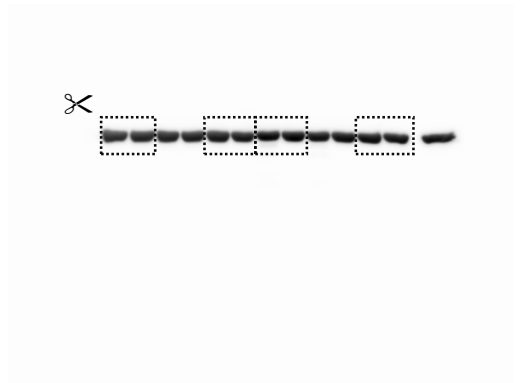
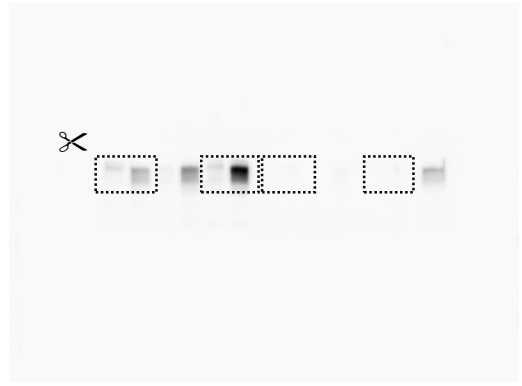


Figure 2C

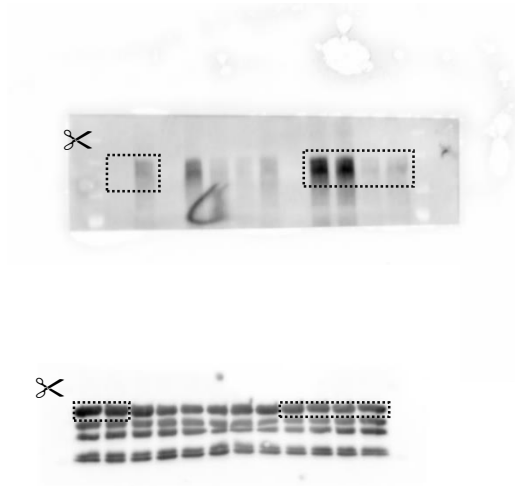


Figure 2D

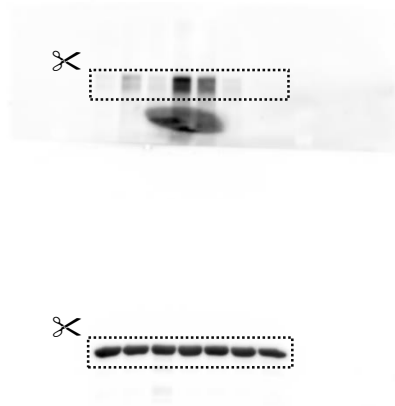


Figure 2E

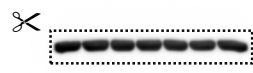
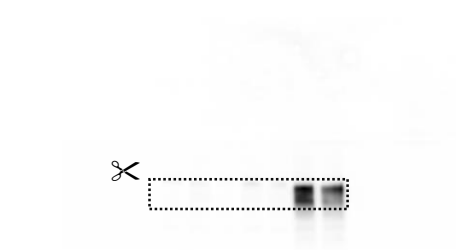




Figure 2F

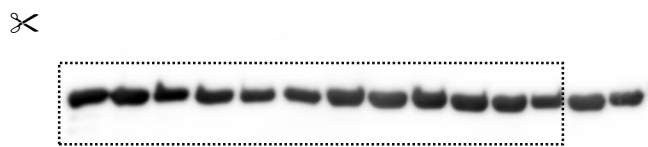
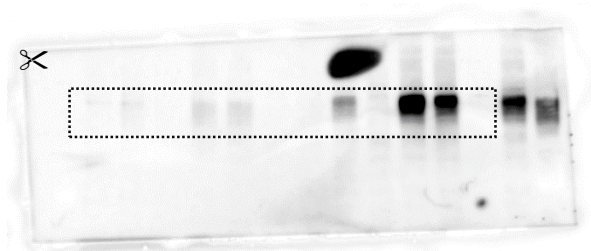


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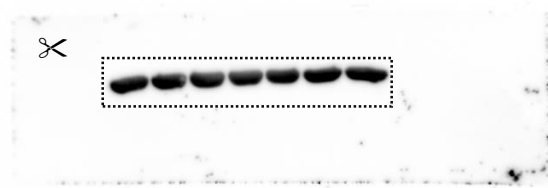
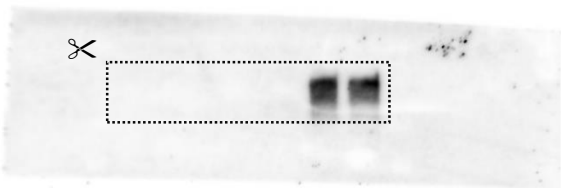


Figure 3C

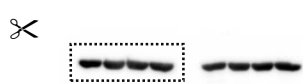
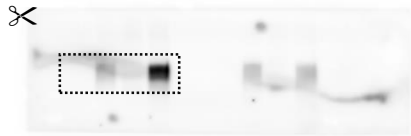


Figure 3F

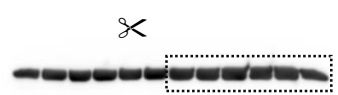
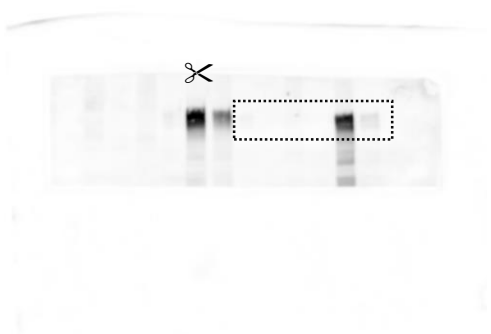


Figure 4B

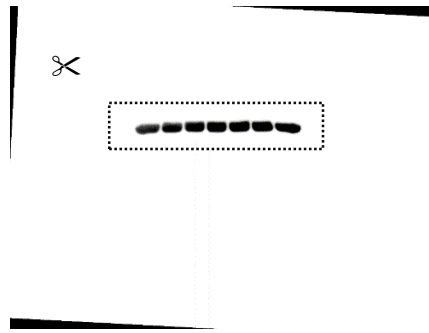
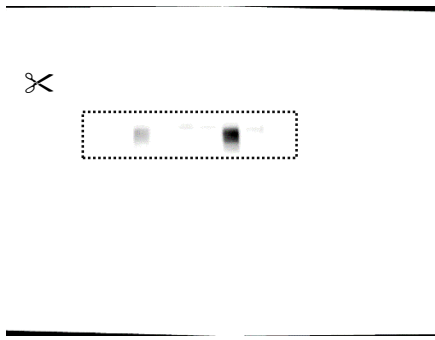


Figure 4D

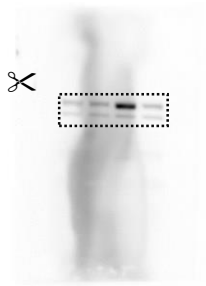


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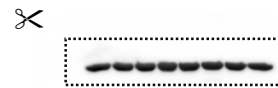


Figure 5A

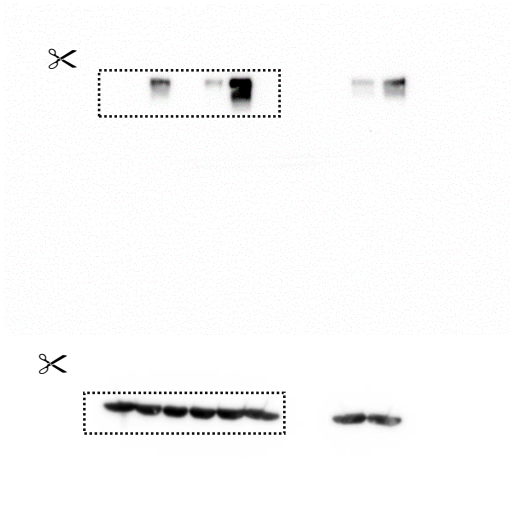


Figure 5B

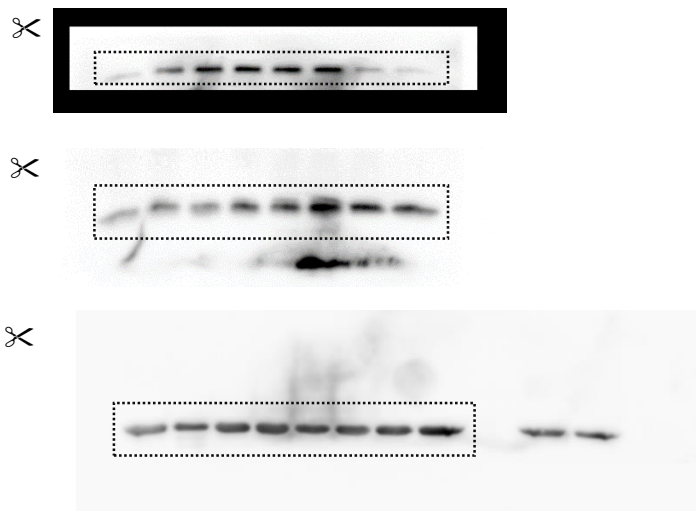


Figure 5C

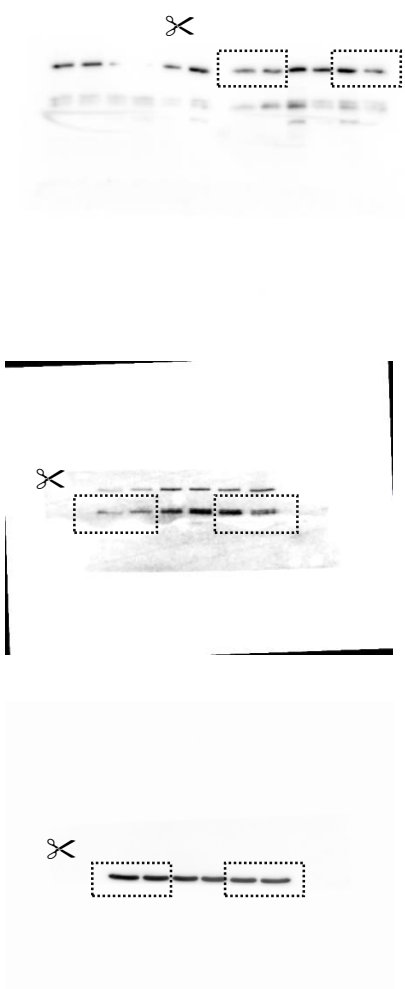


Figure 5D

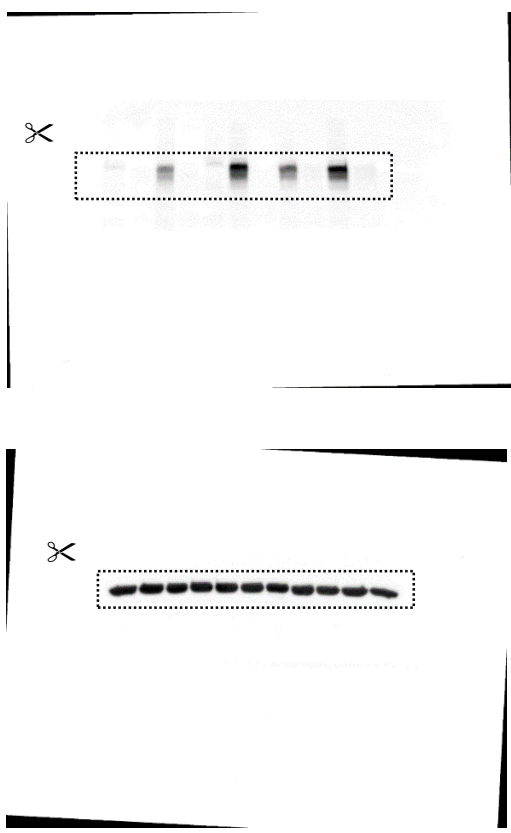


Figure 6A

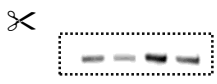
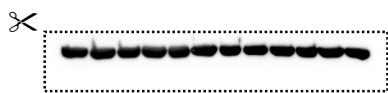
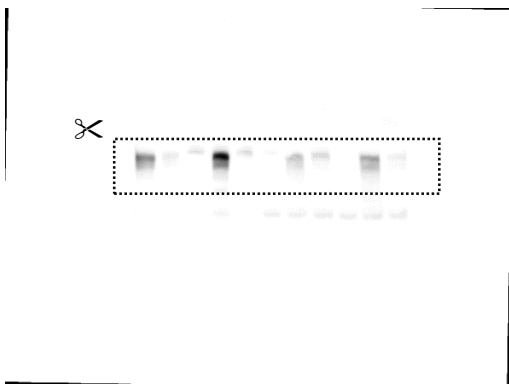


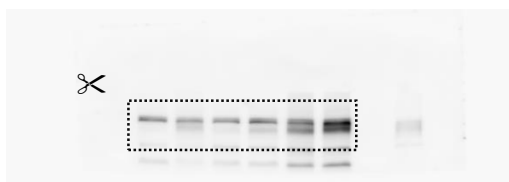
Figure 6B



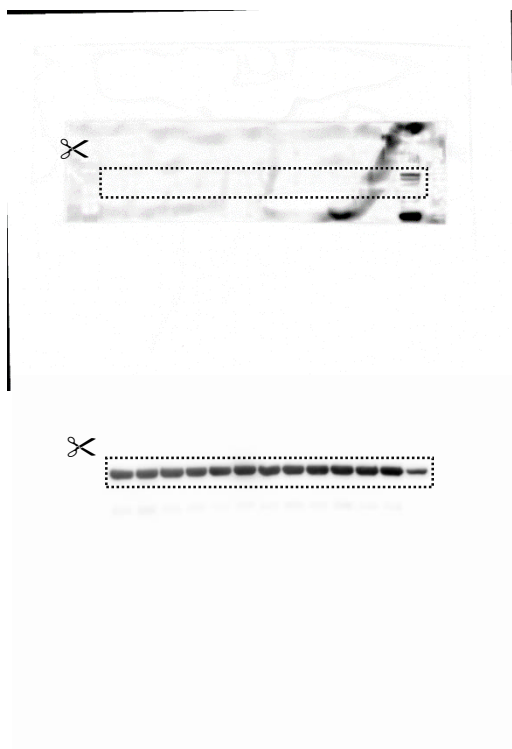
Figure 7C



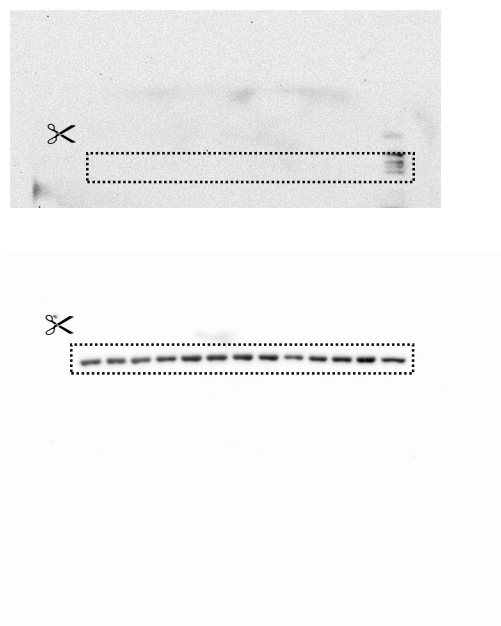
Supplementary Figure 2A



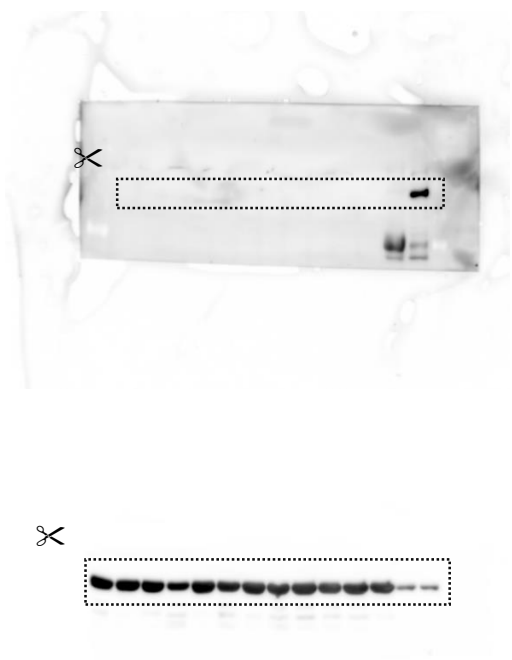
Supplementary Figure 2B



Supplementary Figure 2C



Supplementary Figure 2B



Supplementary Figure 5

