

**Sleep disruption exacerbates allergic airway inflammation
through sympathetic-mediated activation of the mtDNA-cGAS-
STING pathway in pulmonary macrophages**

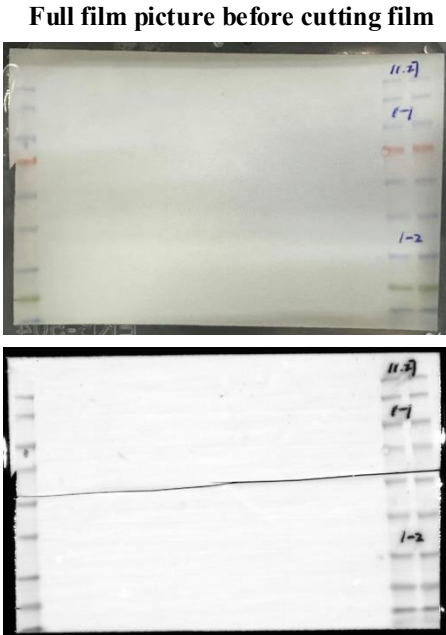
Haotian Chen^{1 †}, Haoyue Zhang^{1 †}, Yanbo Liu¹, Xuanyuan Pan¹, Ying Zhou¹,
Juan zhi¹, Jin Xu¹, Quanle Liu¹, Qianyu Wang¹, Weipeng Xia¹, Dong Yang^{1*}

Supplementary material 2

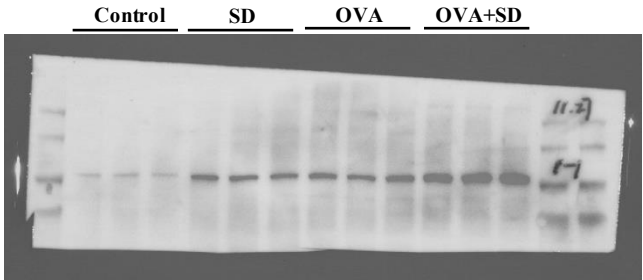
Full uncropped Gels and Blots images

Full unedited gel for Figure 4G

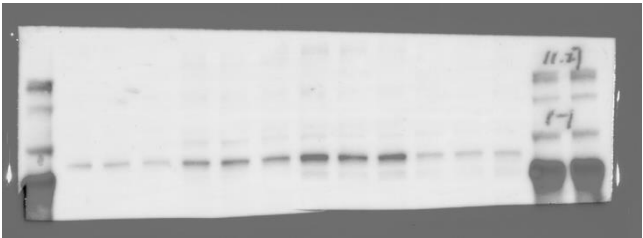
small **red boxes** are the proteins that were validated



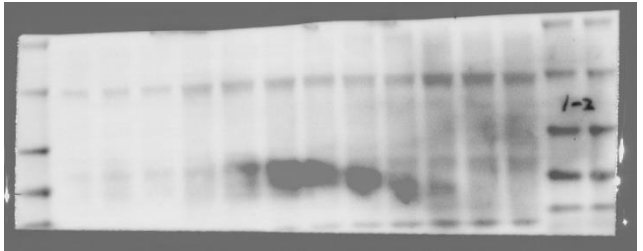
p-TBK1



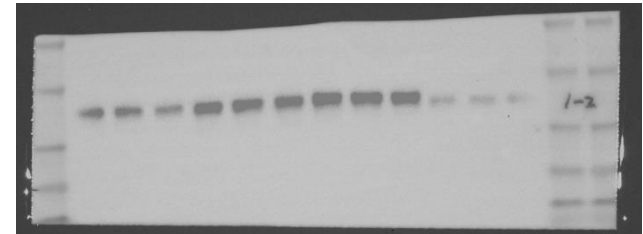
TBK1



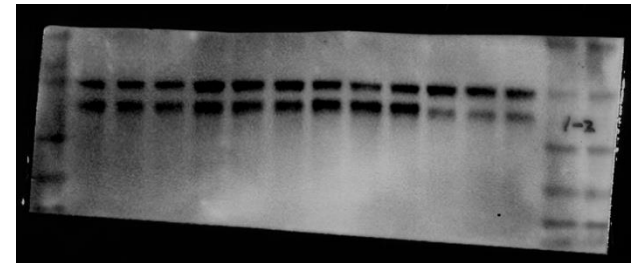
p-STING



STING

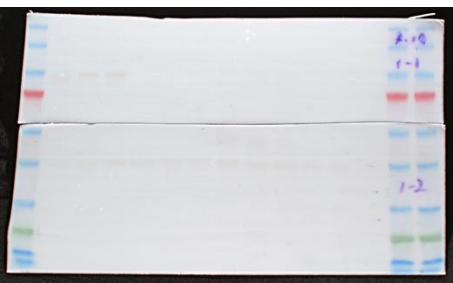
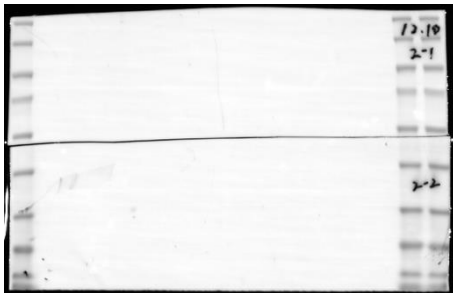


β -actin

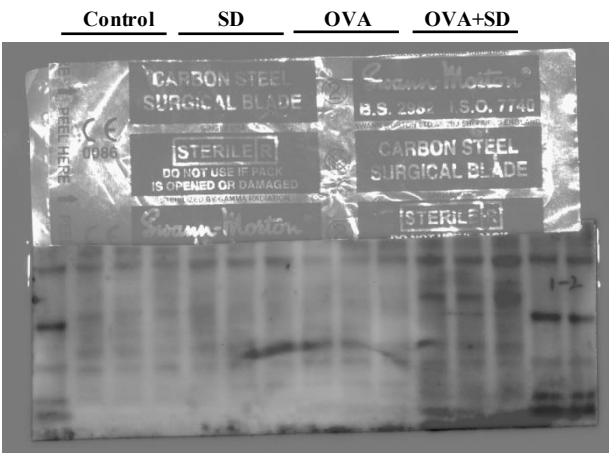


Full unedited gel for Figure 4G

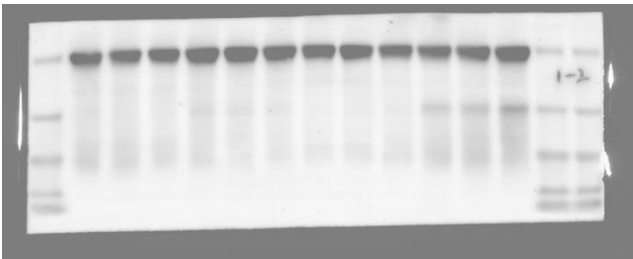
Full film picture before cutting film



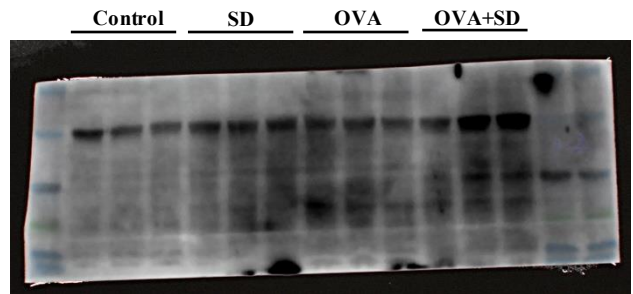
small red boxes are the proteins that were validated



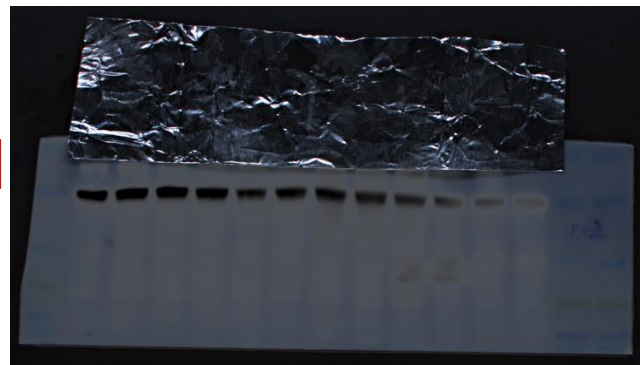
c-GAS



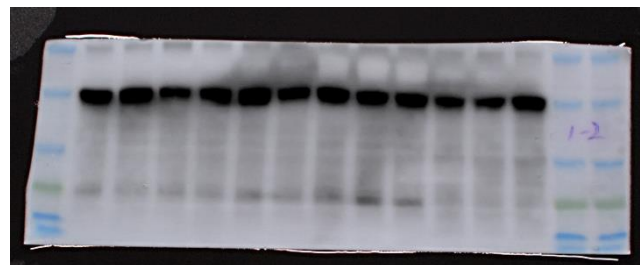
β -actin



p-IRF3



IRF3

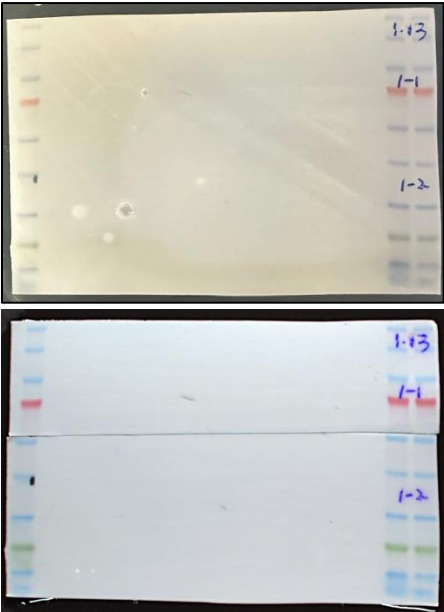


β -actin

Full unedited gel for Figure 5G

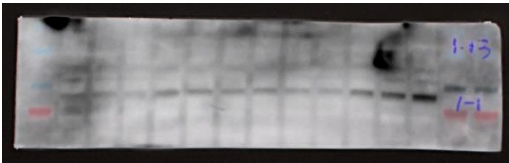
small red boxes are the proteins that were validated

Full film picture before cutting film

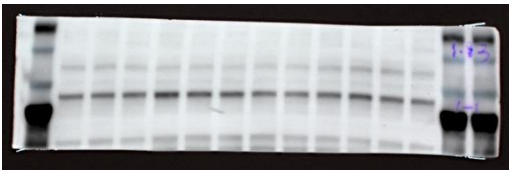


LPS	-	-	-	-	-	-	+	+	+	+	+	+
NE	-	-	-	+	+	+	-	-	-	+	+	+

p-TBK1



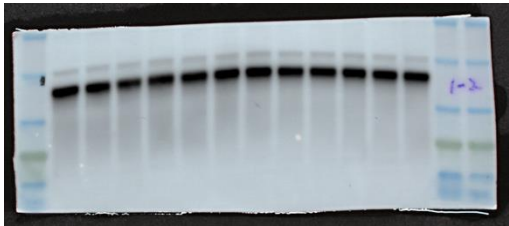
TBK1



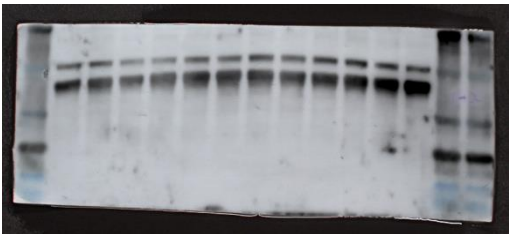
p-STING



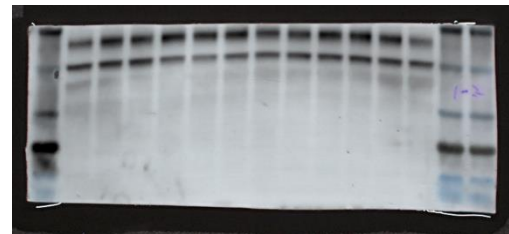
STING



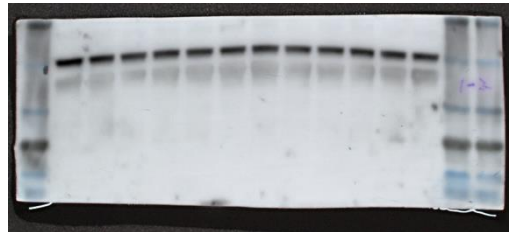
p-IRF3



IRF3



β-actin



Full unedited gel for Figure 5G

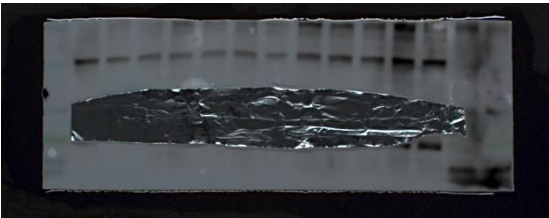
small **red boxes** are the proteins that were validated

Full film picture before cutting film

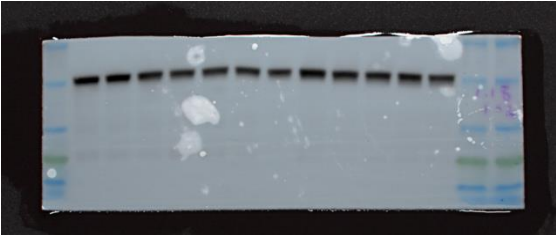


LPS	-	-	-	-	-	-	+	+	+	+	+	+
NE	-	-	-	+	+	+	-	-	-	+	+	+

c-GAS



β -actin

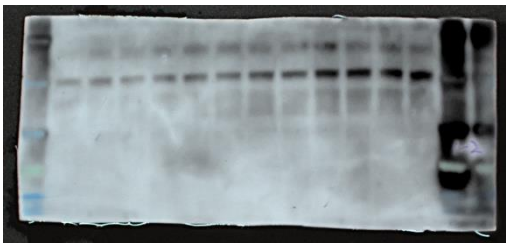


small red boxes are the proteins that were validated

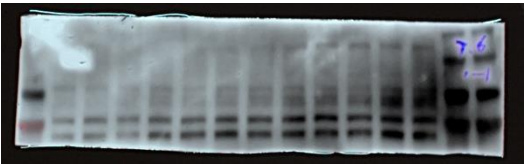
Full unedited gel for Figure 5G

LPS	-	-	-	-	-	-	+	+	+	+	+	+
NE	-	-	-	+	+	+	-	-	-	+	+	+

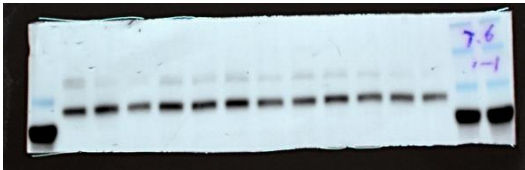
c-GAS



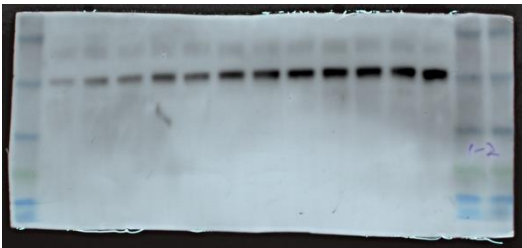
p-TBK1



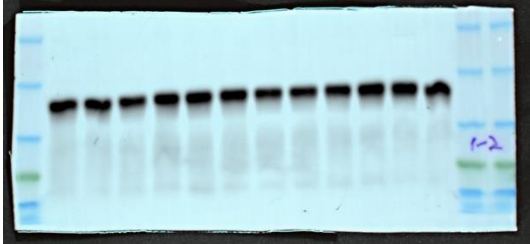
TBK1



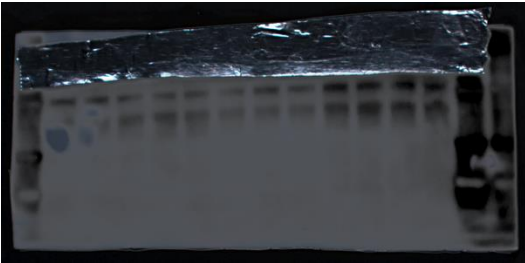
p-STING



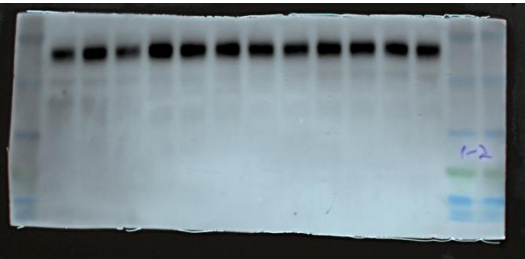
STING



p-IRF3



IRF3



β-actin



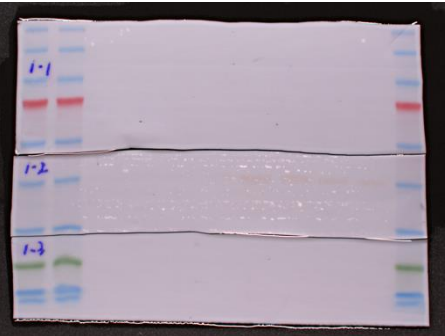
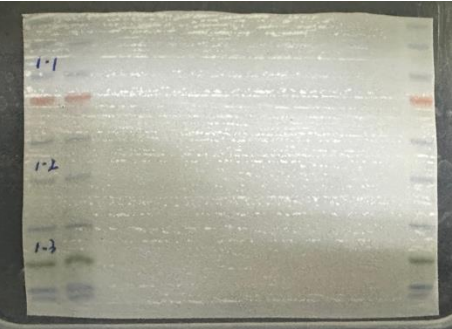
Full film picture before cutting film



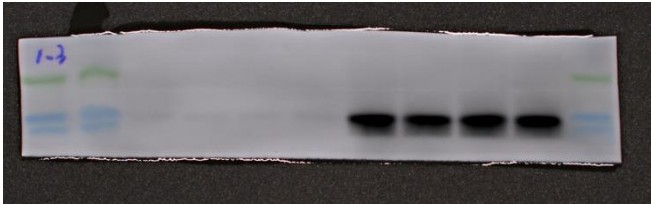
Full unedited gel for Figure 6B

small **red boxes** are the proteins that were validated

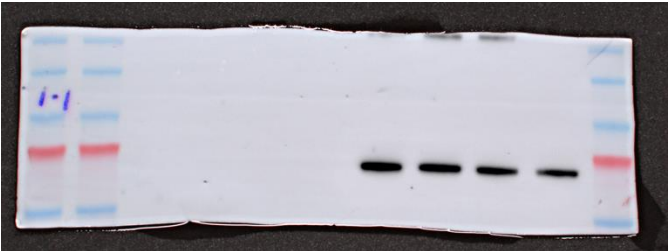
Full film picture before cutting film



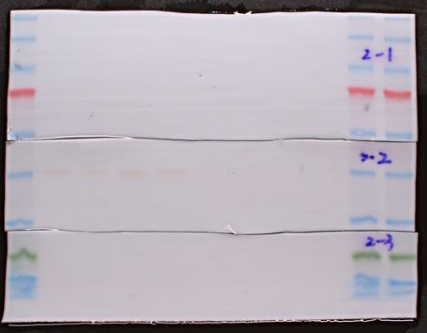
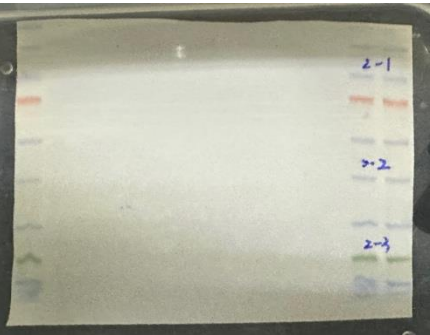
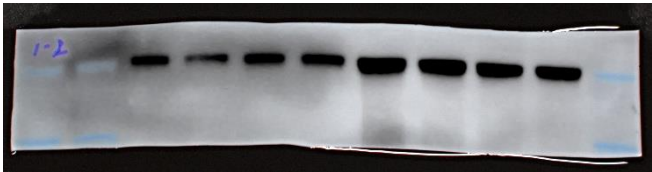
Tom20



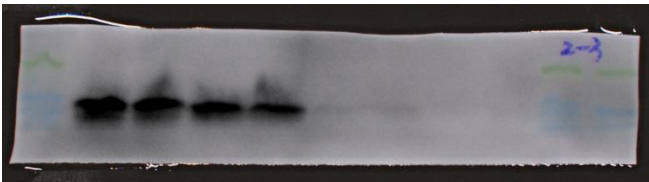
Lamin B1



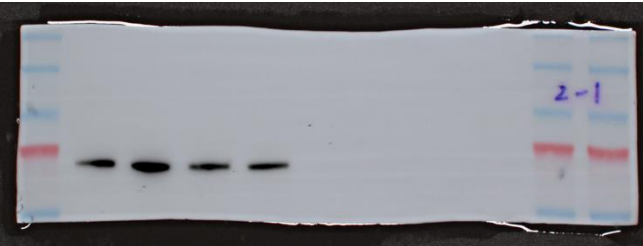
β -actin



Tom20



Lamin B1



β -actin



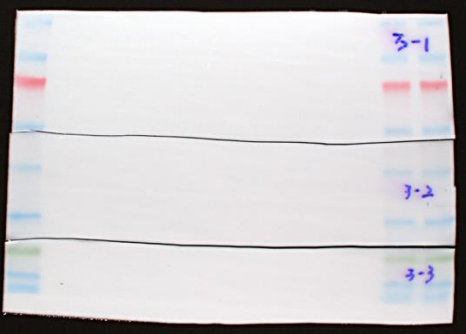
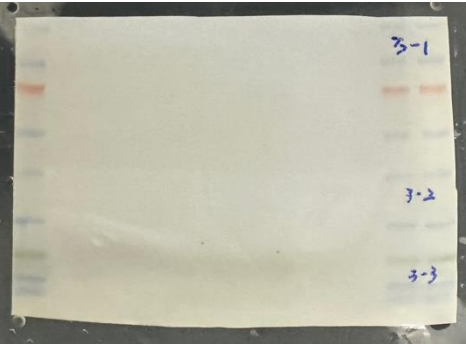
	Cytosol				Whole			
LPS	-	+	+	+	+	+	+	+
NE	-	-	+	+	-	-	+	+
ICI	-	-	-	+	-	-	-	+

	Whole				Cytosol			
LPS	-	+	+	+	+	+	+	+
NE	-	-	+	+	-	-	+	+
ICI	-	-	-	+	-	-	-	+

Full unedited gel for Figure 6B

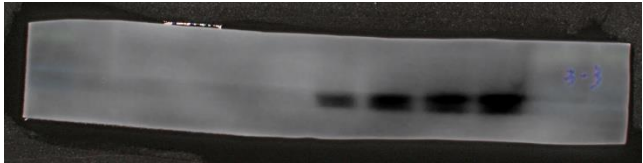
small red boxes are the proteins that were validated

Full film picture before cutting film

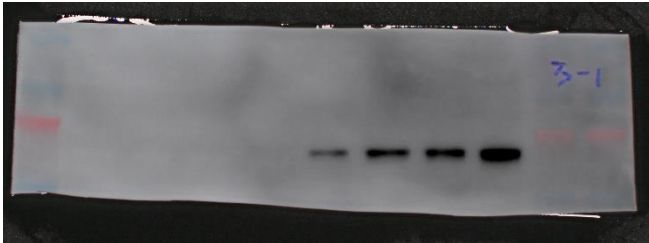


		Cytosol				Whole			
LPS	-	+	+	+	+	+	+	+	+
NE	-	-	+	+	-	-	+	+	+
ICI	-	-	-	+	-	-	-	-	+

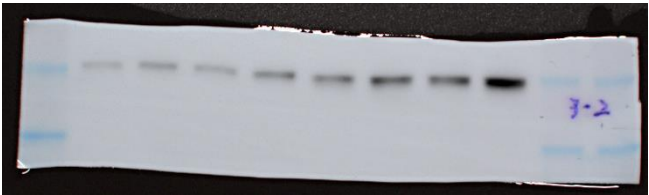
Tom20



Lamin B1

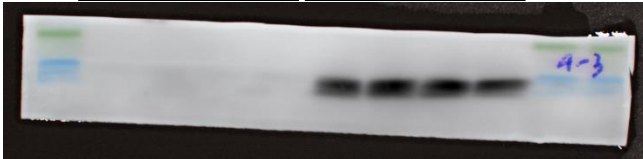


β-actin

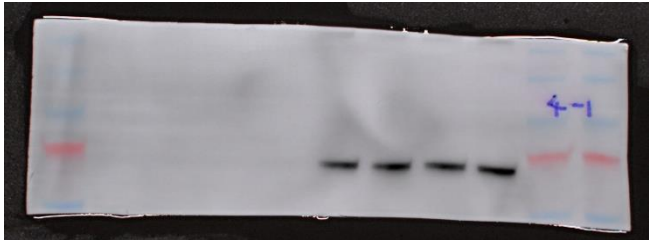


		Cytosol				Whole			
LPS	-	+	+	+	+	+	+	+	+
NE	-	-	+	+	-	-	+	+	+
ICI	-	-	-	+	-	-	-	-	+

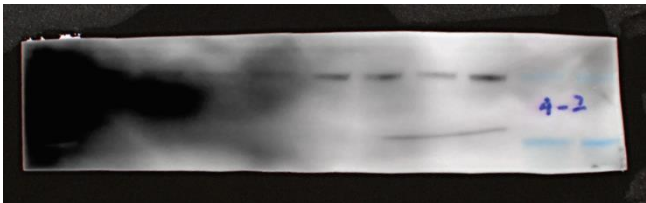
Tom20



Lamin B1



β-actin

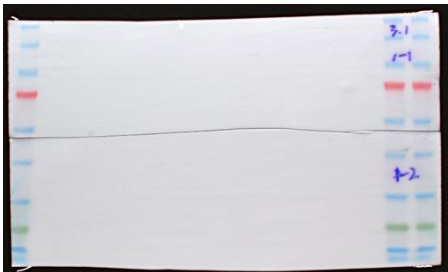


Full unedited gel for Figure 6H

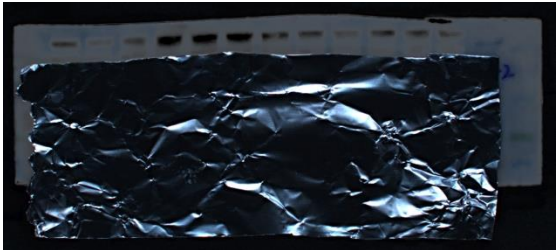
small red boxes are the proteins that were validated

Full film picture before cutting film

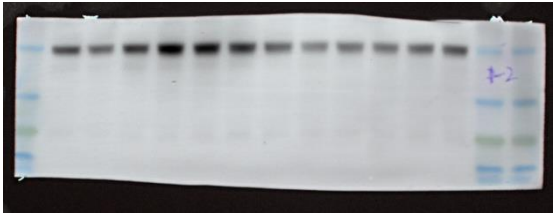
LPS	+	+	+	+	+	+	+	+	+	+	+
NE	-	-	-	+	+	+	+	+	+	+	+
ICI	-	-	-	-	-	-	+	+	+	+	+
H-151	-	-	-	-	-	-	-	-	-	+	+



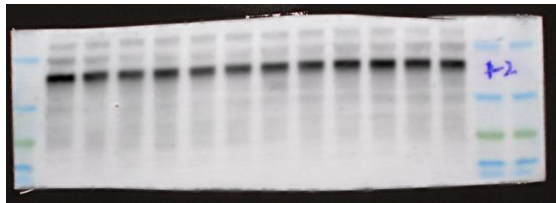
c-GAS



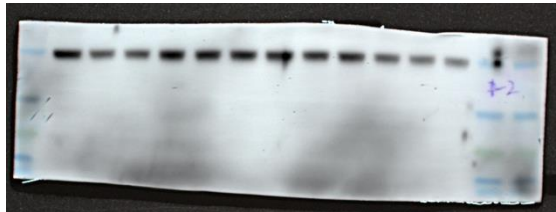
p-STING



STING



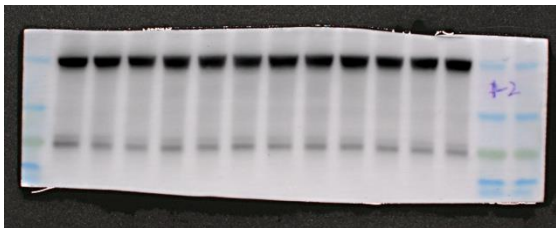
p-IRF3



IRF3



β-actin



Full unedited gel for Figure 6H

Full film picture before cutting film



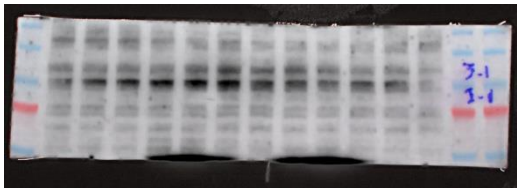
small red boxes are the proteins that were validated

LPS	+	+	+	+	+	+	+	+	+	+	+
NE	-	-	-	+	+	+	+	+	+	+	+
ICI	-	-	-	-	-	-	+	+	+	+	+
H-151	-	-	-	-	-	-	-	-	+	+	+

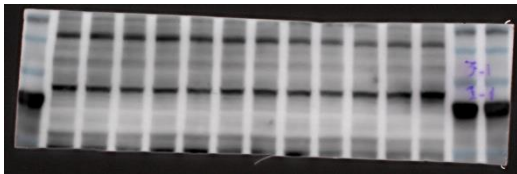
c-GAS



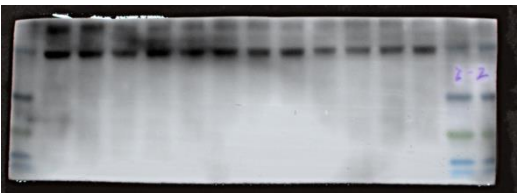
p-TBK1



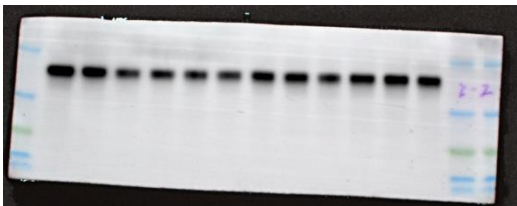
TBK1



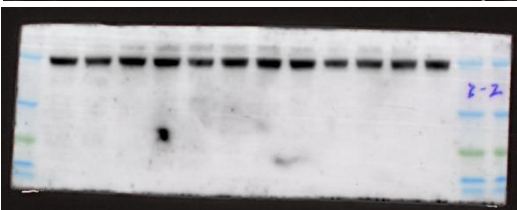
p-STING



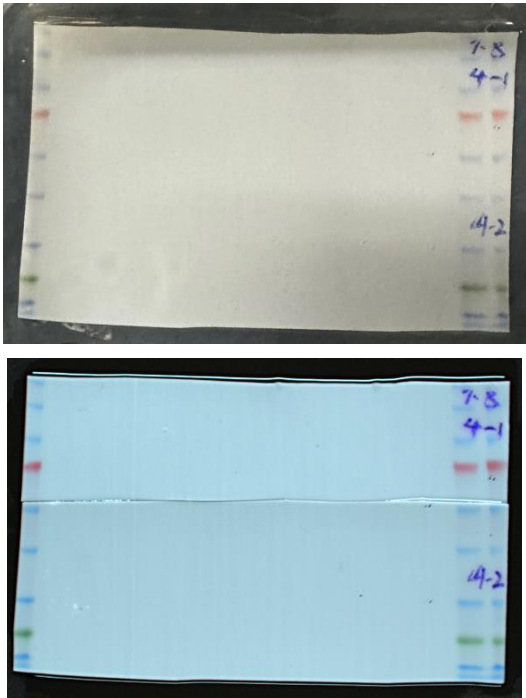
STING



β-actin

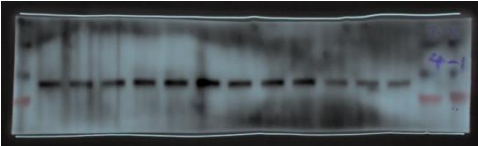


Full film picture before cutting film

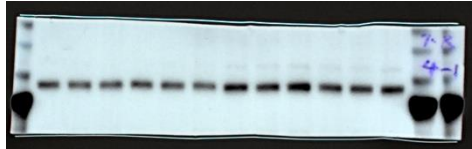


LPS	+	+	+	+	+	+	+	+	+	+	+
NE	-	-	-	+	+	+	+	+	+	+	+
ICI	-	-	-	-	-	-	+	+	+	+	+
H-151	-	-	-	-	-	-	-	-	+	+	+

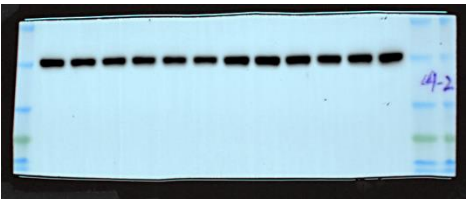
p-TBK1



TBK1

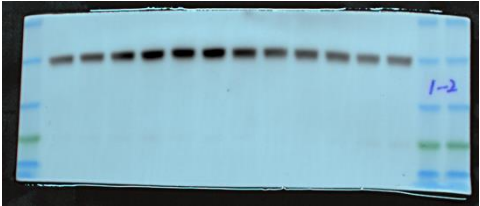


β-actin

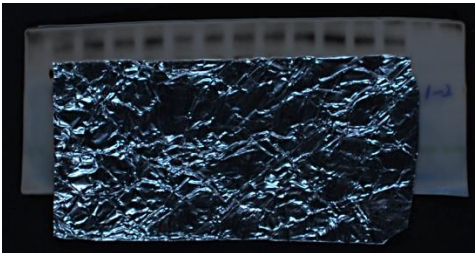


LPS	+	+	+	+	+	+	+	+	+	+	+
NE	-	-	-	+	+	+	+	+	+	+	+
ICI	-	-	-	-	-	-	+	+	+	+	+
H-151	-	-	-	-	-	-	-	-	+	+	+

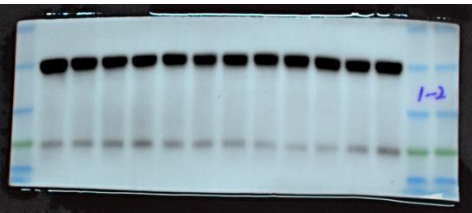
p-IRF3



IRF3



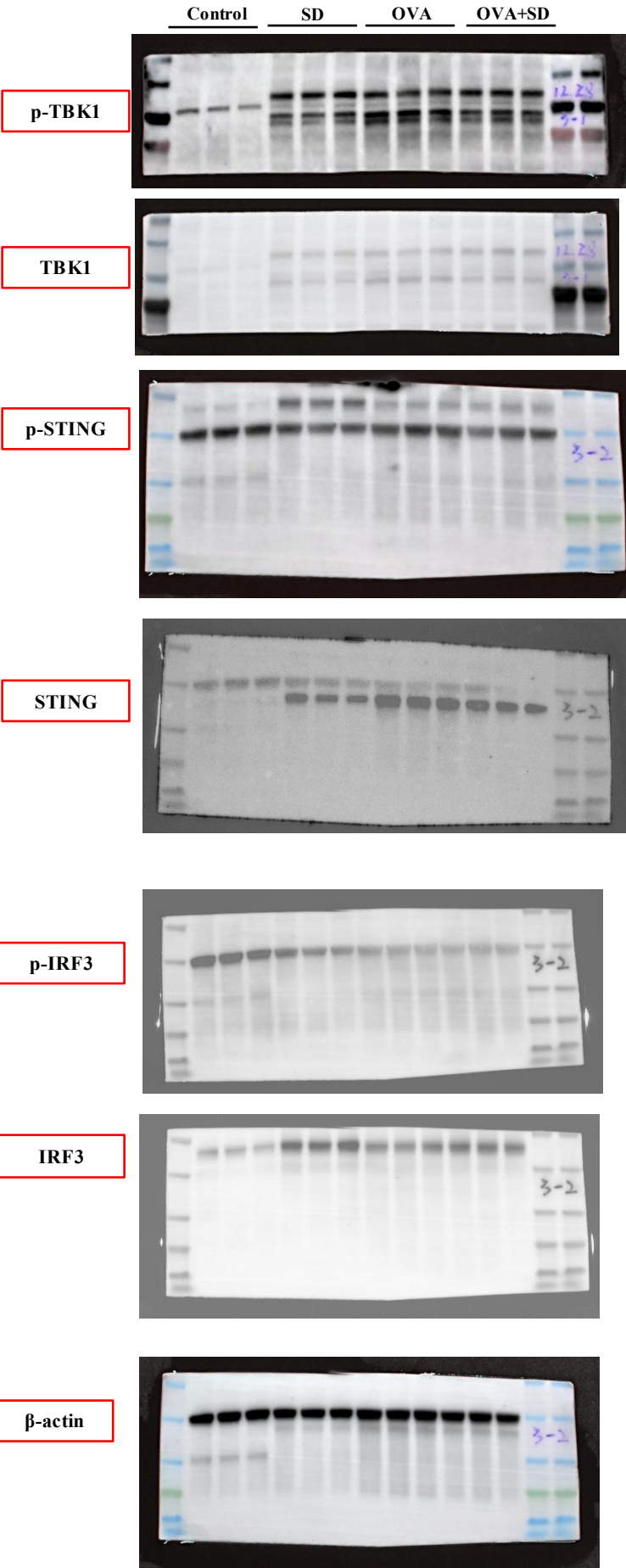
β-actin



Full unedited gel for Figure 7J

small **red boxes** are the proteins that were validated

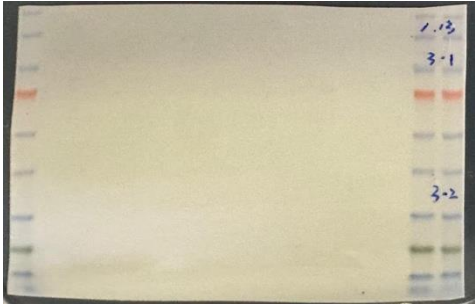
Full film picture before cutting film



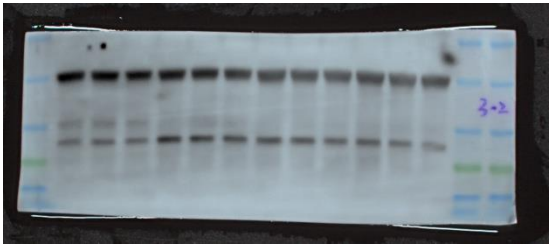
Full unedited gel for Figure 7J

small red boxes are the proteins that were validated

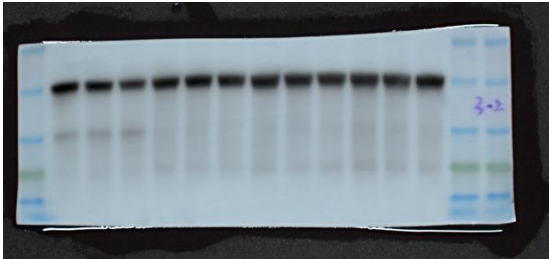
Full film picture before cutting film



c-GAS



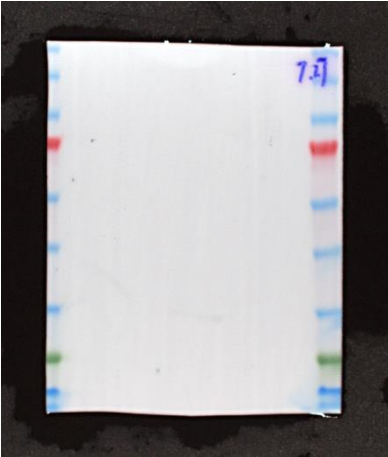
β -actin



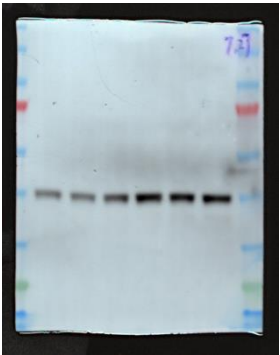
Full unedited gel for Figure Figure S9B

small red boxes are the proteins that were validated

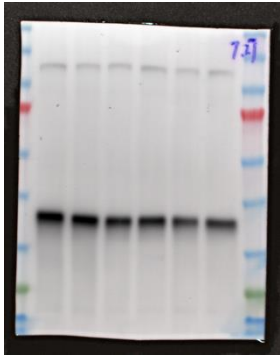
Full film picture before cutting film



p-STING



STING



β -actin

