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Editing Certificate

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MANUSCRIPT TITLE

Metformin attenuates osteoclast-mediated abnormal subchondral bone remodeling and alleviates osteoarthritis via AMPK/NF-κB/ERK signaling pathway

AUTHORS

Haohui Guo, Dong Ding, Limei Wang, Jiangbo Yan, Long Ma, Qunhua Jin

ISSUED ON

September 21, 2021

JOB CODE

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Chief Operating Officer - Editage

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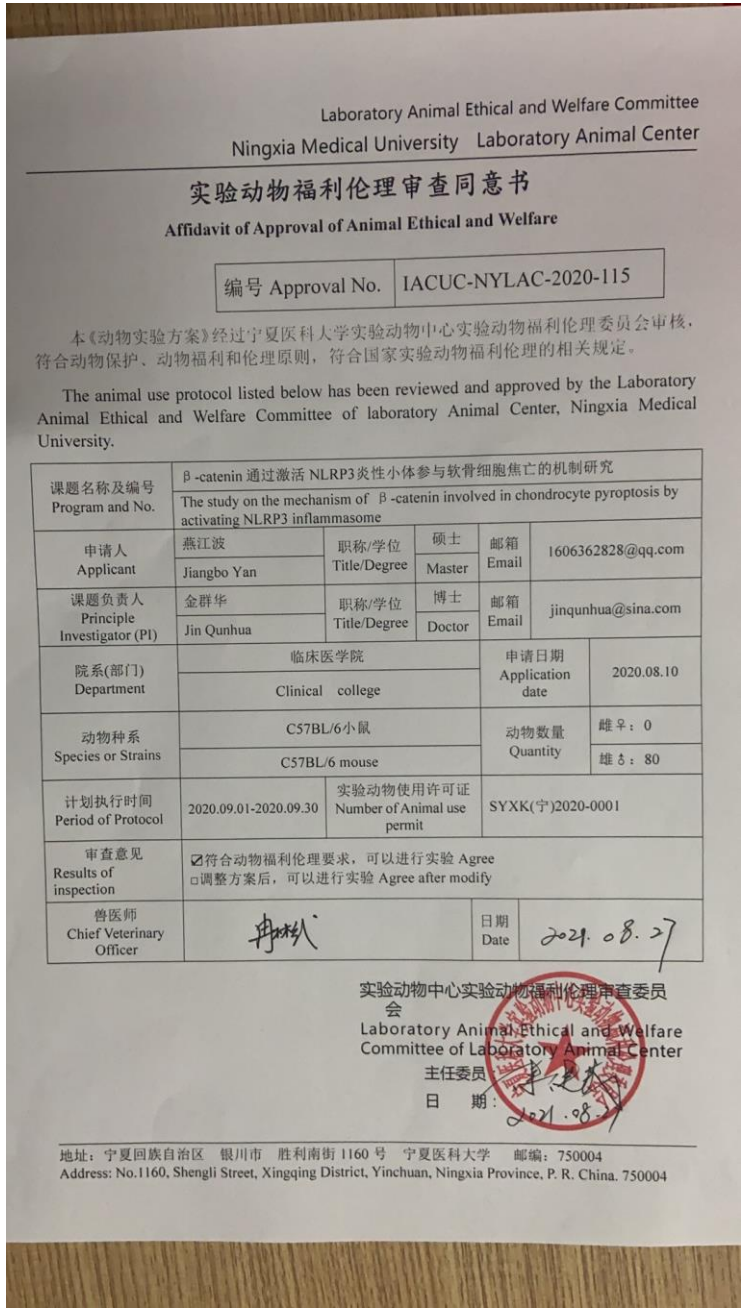
Animal ethic and care



Laboratory Animal Ethical and Welfare Committee

Ningxia Medical University Laboratory Animal Center

实验动物福利伦理审查同意书

Affidavit of Approval of Animal Ethical and Welfare

编号 Approval No.	IACUC-NYLAC-2020-115

本《动物实验方案》经过宁夏医科大学实验动物中心实验动物福利伦理委员会审核，符合动物保护、动物福利和伦理原则，符合国家实验动物福利伦理的相关规定。

The animal use protocol listed below has been reviewed and approved by the Laboratory Animal Ethical and Welfare Committee of laboratory Animal Center, Ningxia Medical University.

课题名称及编号 Program and No.	β-catenin 通过激活 NLRP3炎性小体参与软骨细胞焦亡的机制研究 The study on the mechanism of β-catenin involved in chondrocyte pyroptosis by activating NLRP3 inflammasome				
申请人 Applicant	燕江波 Jiangbo Yan	职称/学位 Title/Degree	硕士 Master	邮箱 Email	1606362828@qq.com
课题负责人 Principle Investigator (PI)	金群华 Jin Qunhua	职称/学位 Title/Degree	博士 Doctor	邮箱 Email	jinqunhua@sina.com
院系(部门) Department	临床医学院 Clinical college			申请日期 Application date	2020.08.10
动物种系 Species or Strains	C57BL/6小鼠 C57BL/6 mouse			动物数量 Quantity	雌♀：0 雄♂：80
计划执行时间 Period of Protocol	2020.09.01-2020.09.30	实验动物使用许可证 Number of Animal use permit		SYXK(宁)2020-0001	
审查意见 Results of inspection	☑符合动物福利伦理要求，可以进行实验 Agree □调整方案后，可以进行实验 Agree after modify				
兽医师 Chief Veterinary Officer				日期 Date	2021.08.27

实验动物中心实验动物福利伦理审查委员会

Laboratory Animal Ethical and Welfare Committee of Laboratory Animal Center

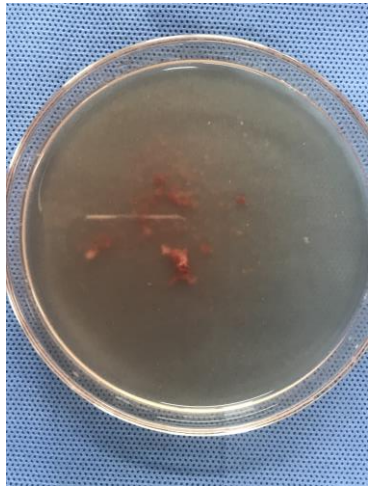
主任委员：

日　期：2021.08.27

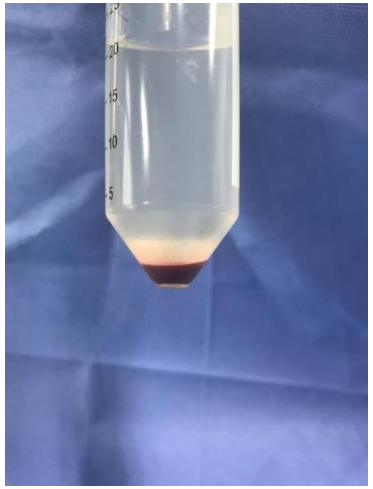
地址：宁夏回族自治区　银川市　胜利南街 1160 号　宁夏医科大学　邮编：750004

Address: No.1160, Shengli Street, Xingqing District, Yinchuan, Ningxia Province, P. R. China. 750004

Process of primary cell experiments

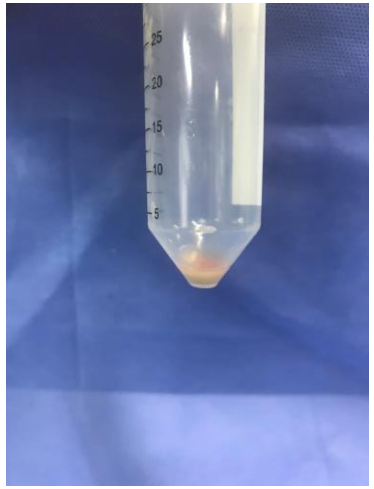


bone marrow



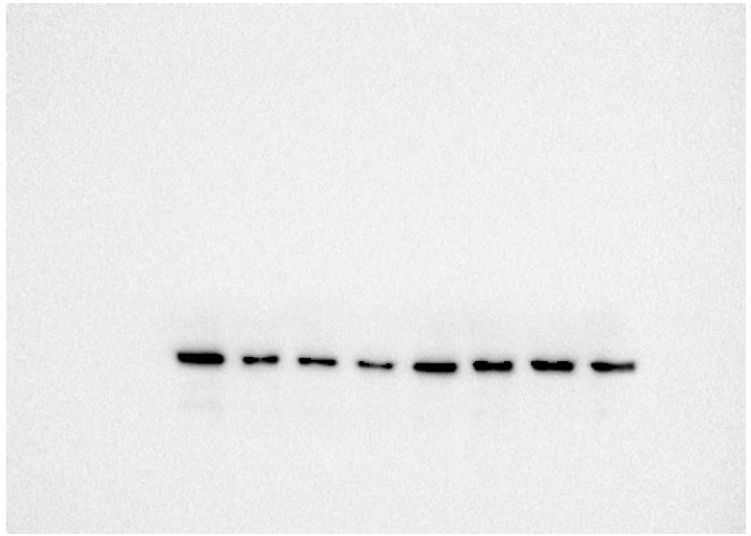
deposit before splitting

lytic erythrocyte

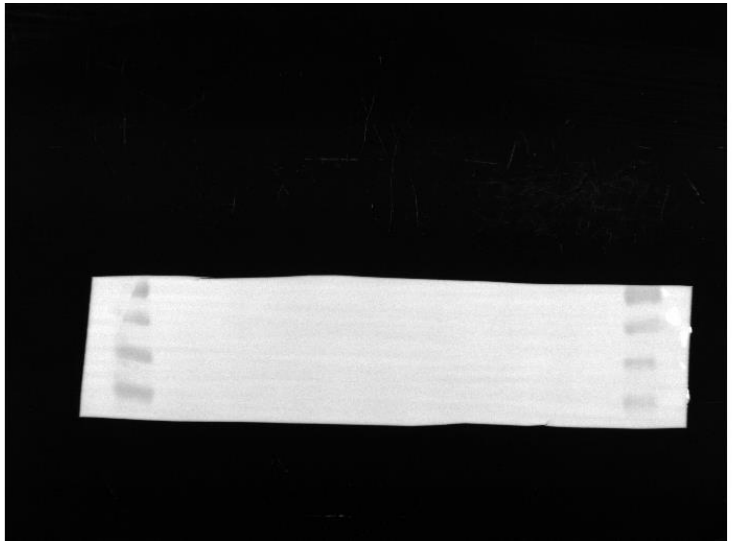


deposit after splitting

The original blot of p-AMPK



original blot



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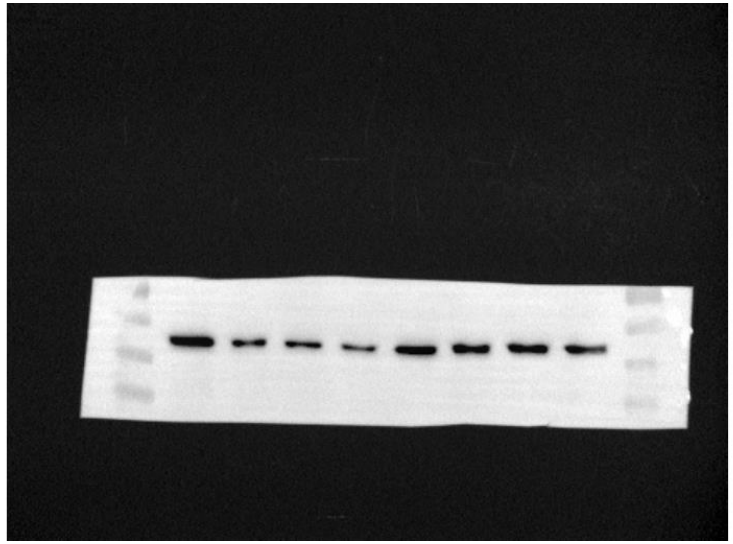
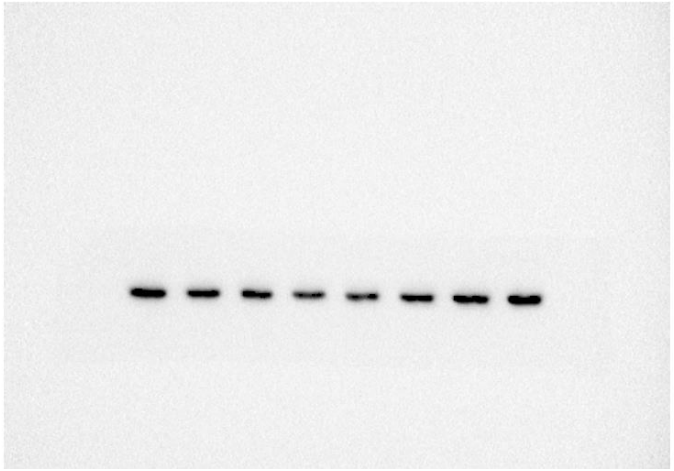


merged picture

The original blot of AMPK



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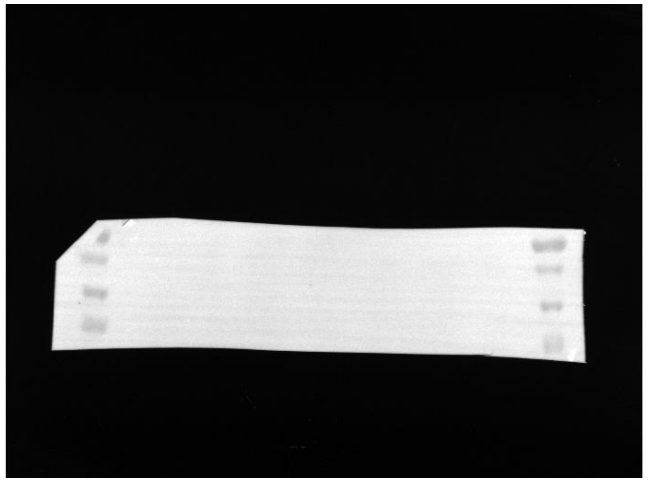

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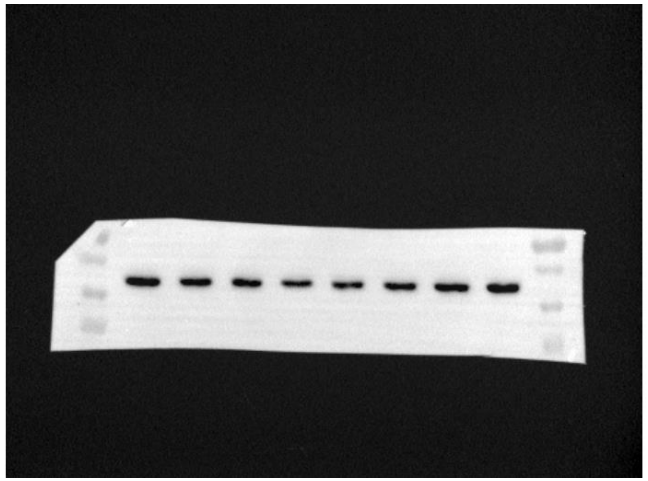
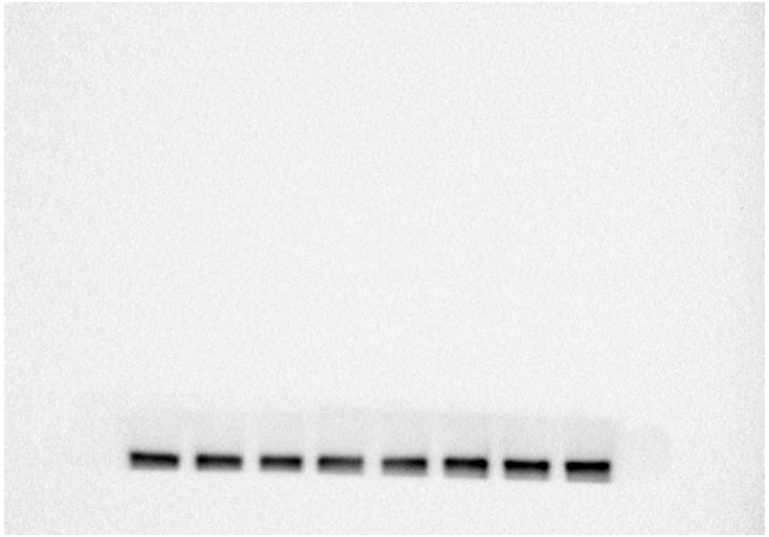


merged picture

The original blot of β-actin VS AMPK

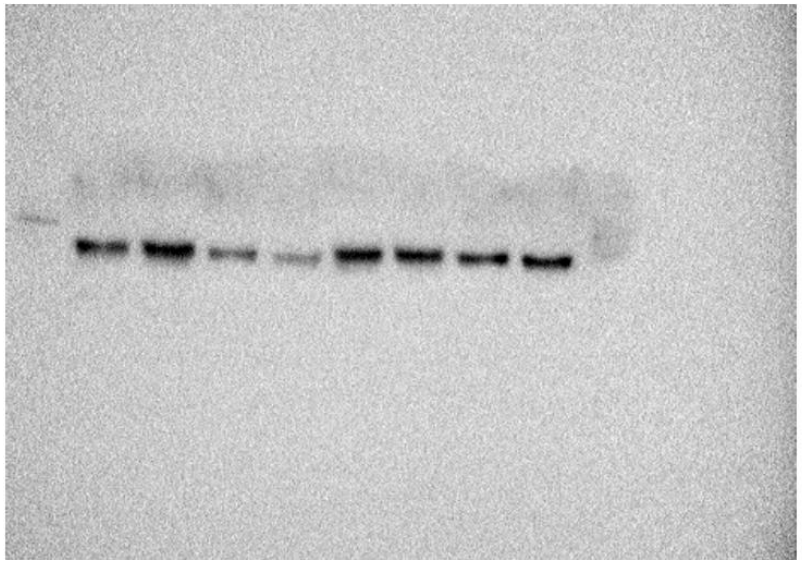


original blot

background picture

merged picture

The original blot of IkBα



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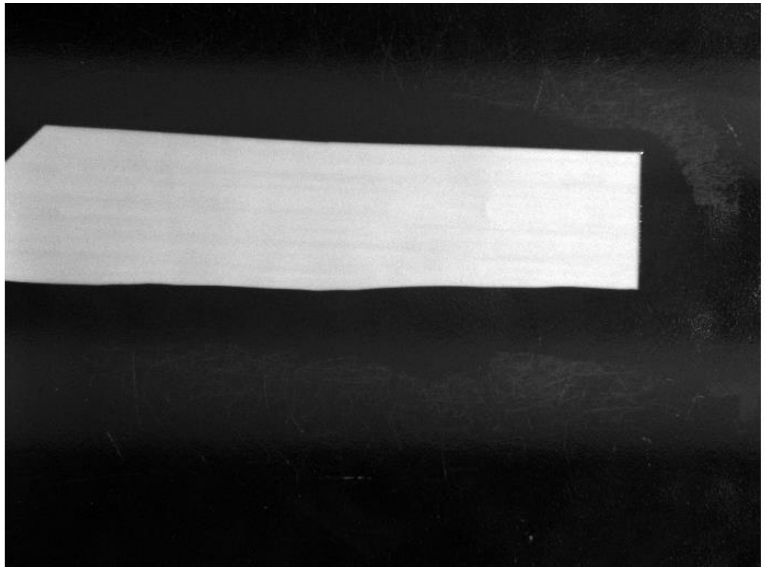

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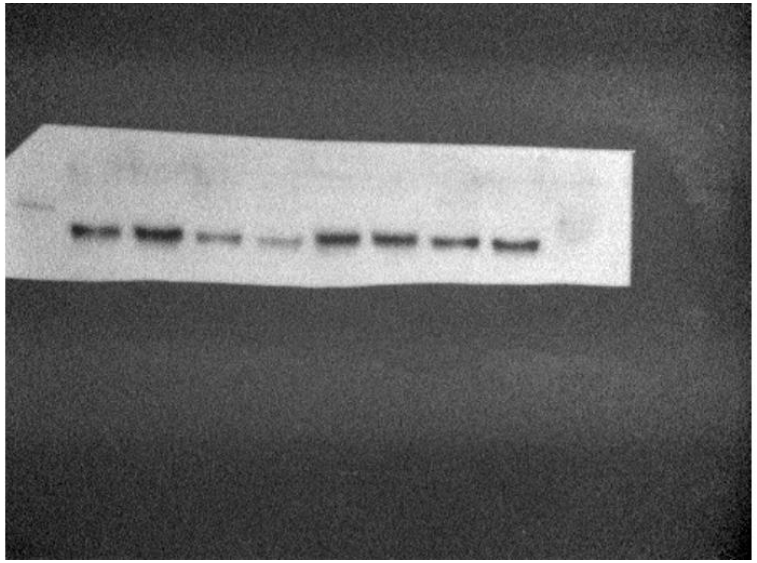
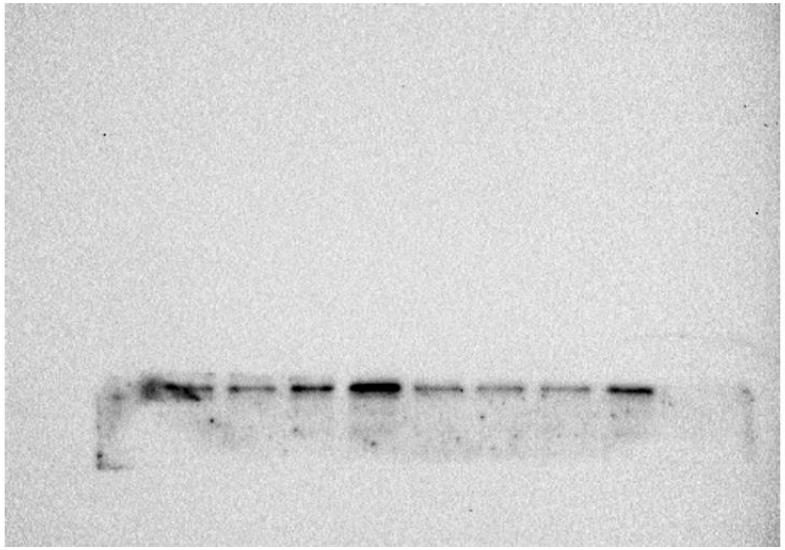


merged picture

The original blot of NF-κB



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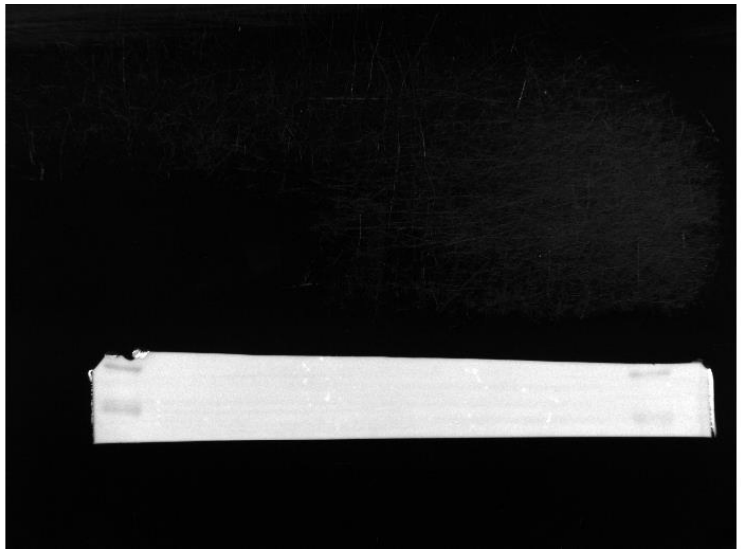

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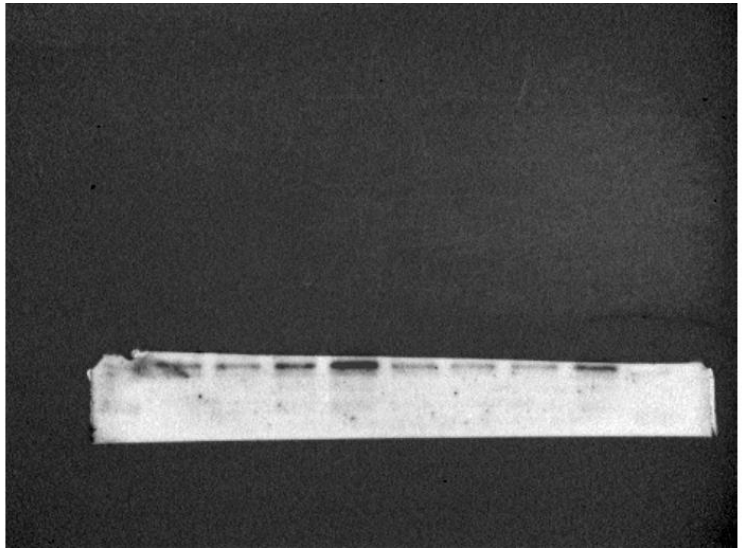
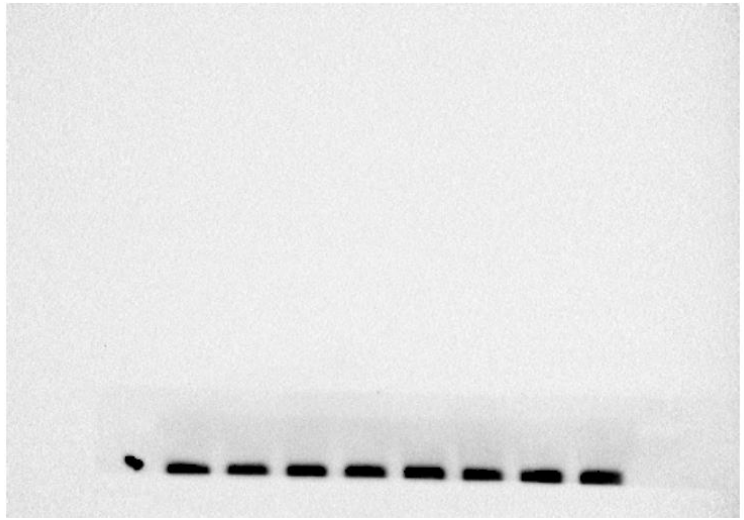


merged picture

The original blot of β-actin VS NF-κB



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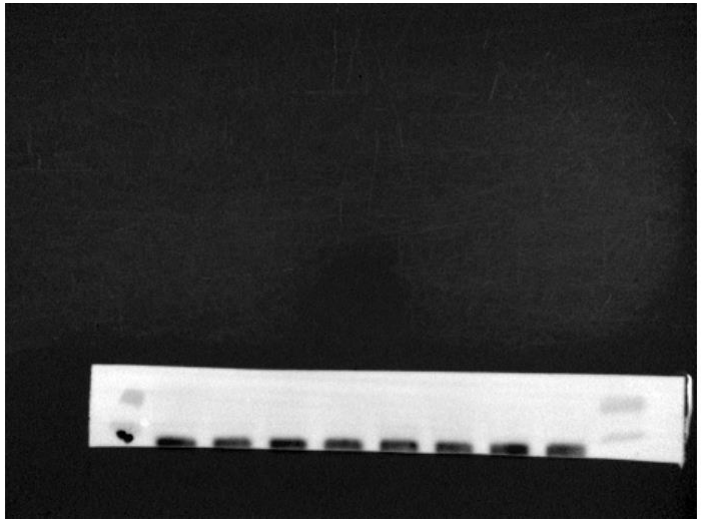

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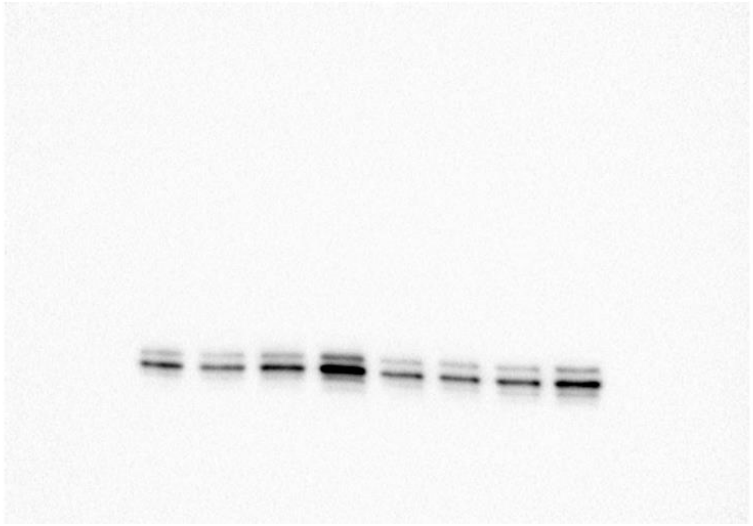

original blot

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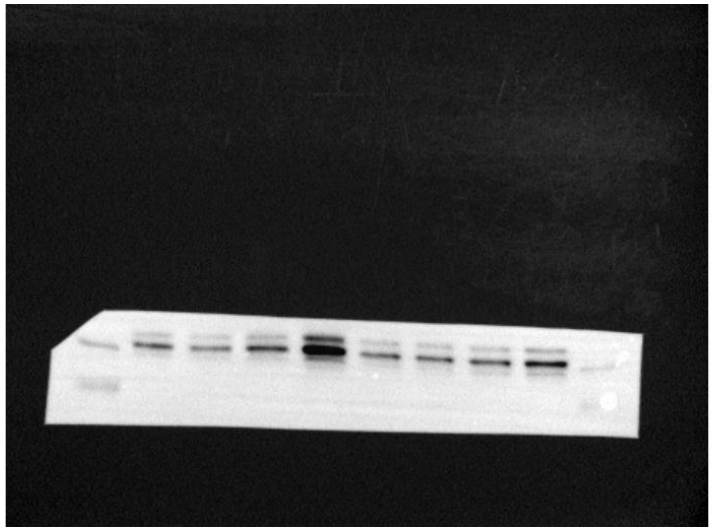

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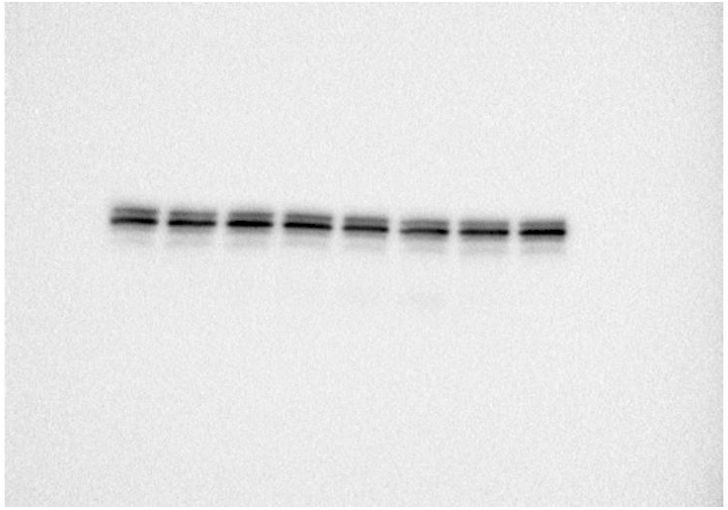
The original blot of ERK



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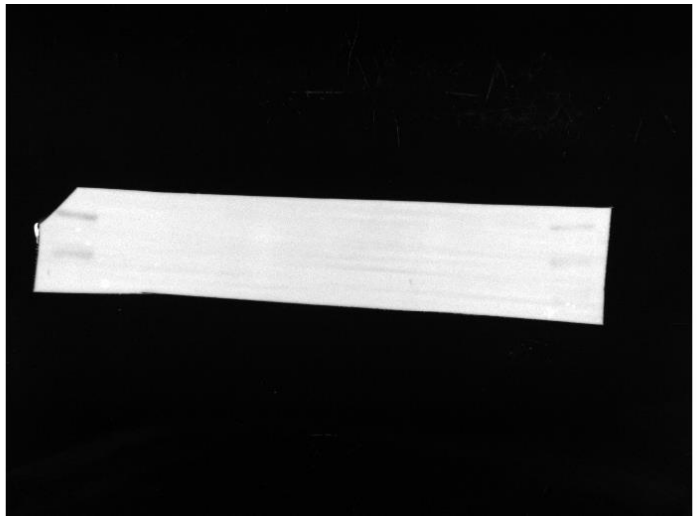

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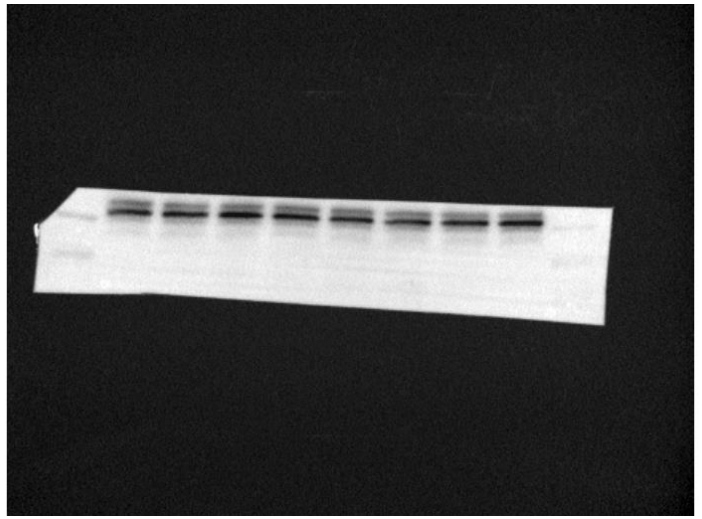

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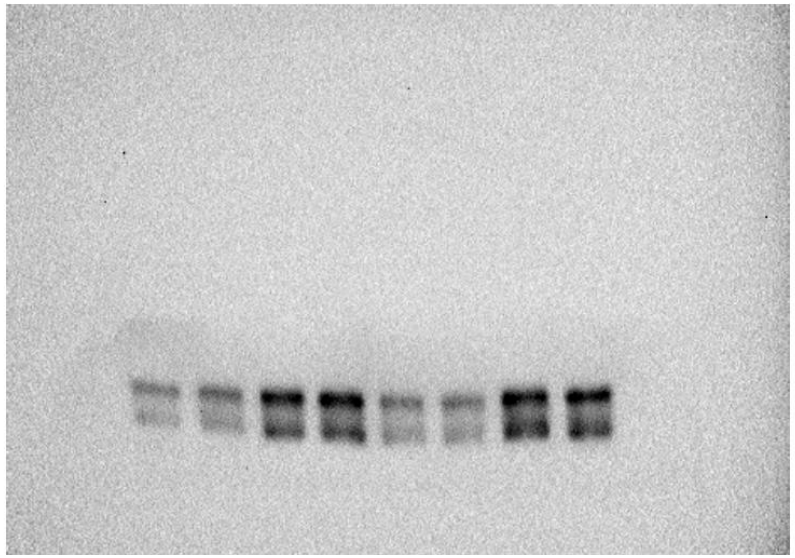

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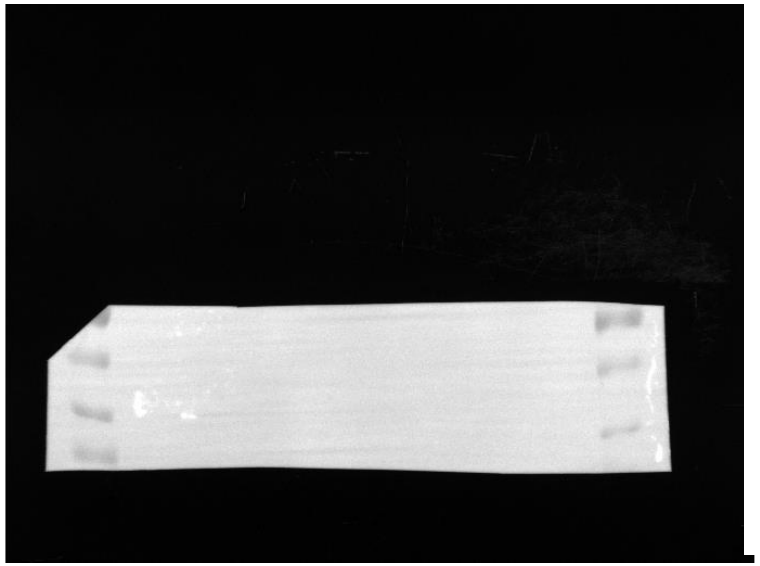

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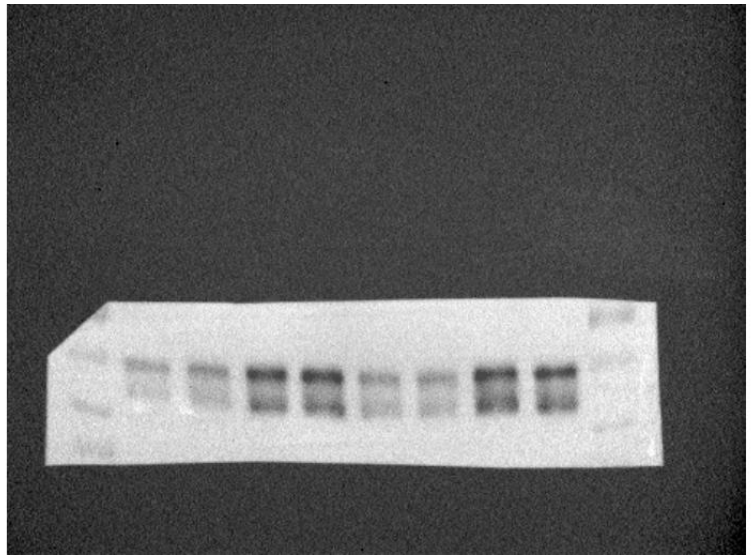

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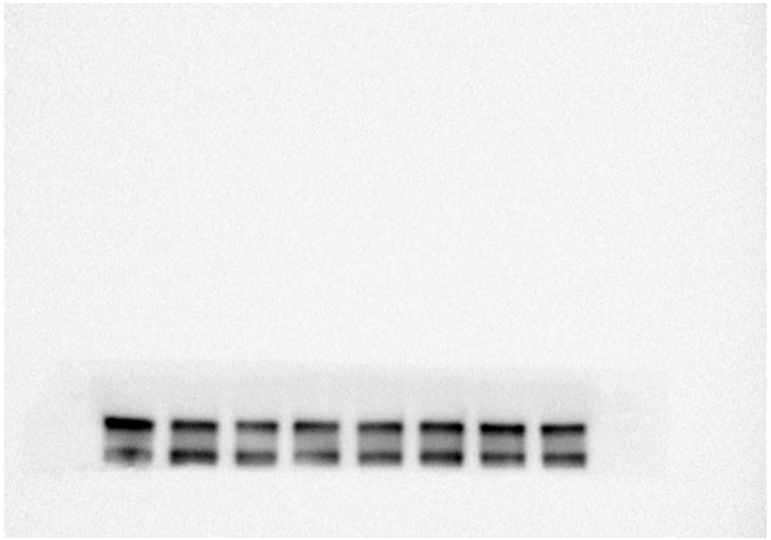
The original blot of JNK



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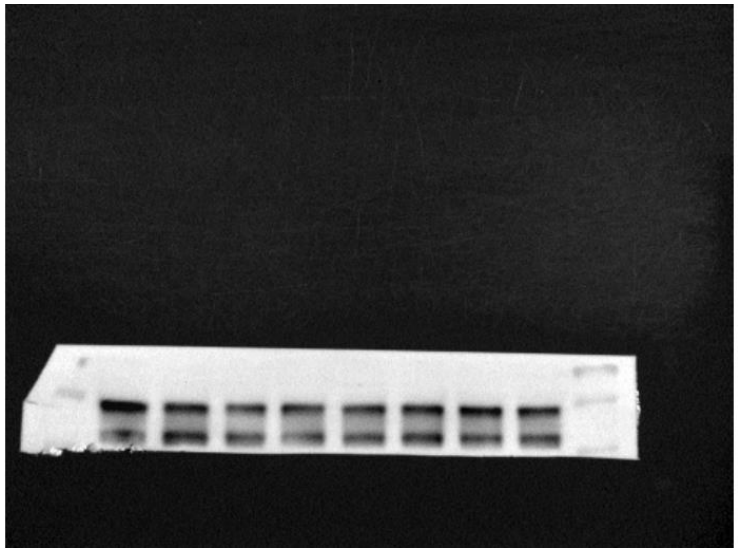

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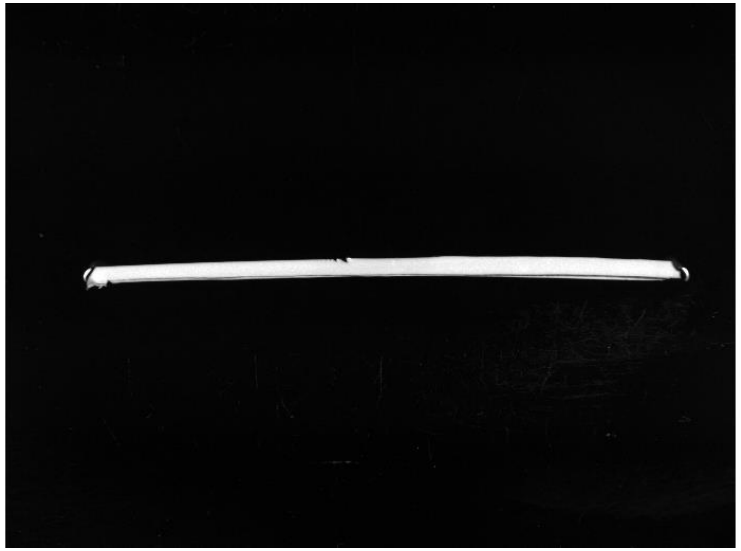
The original blot of p-p38

original blot



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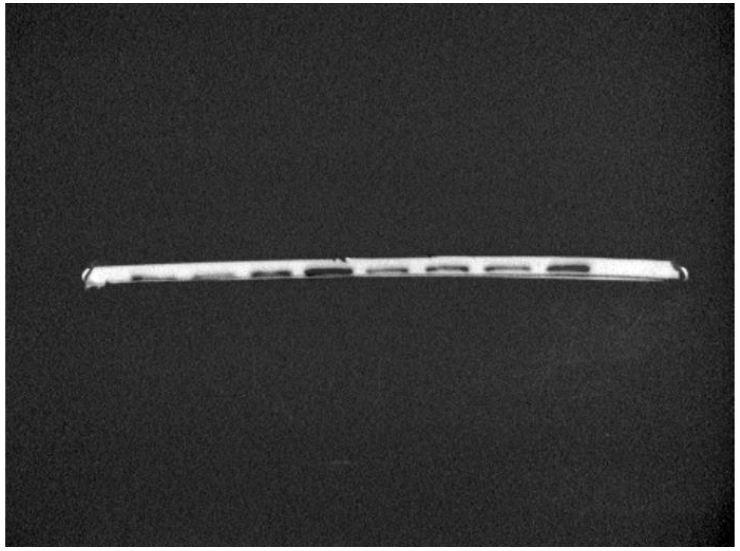

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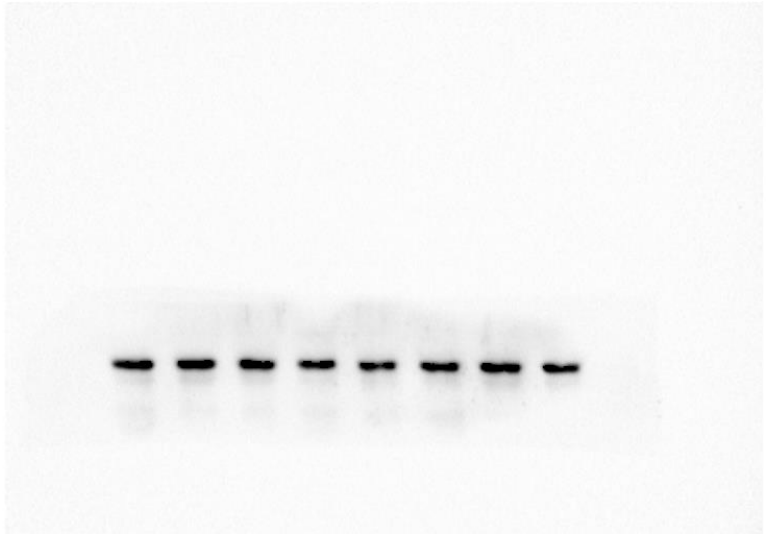

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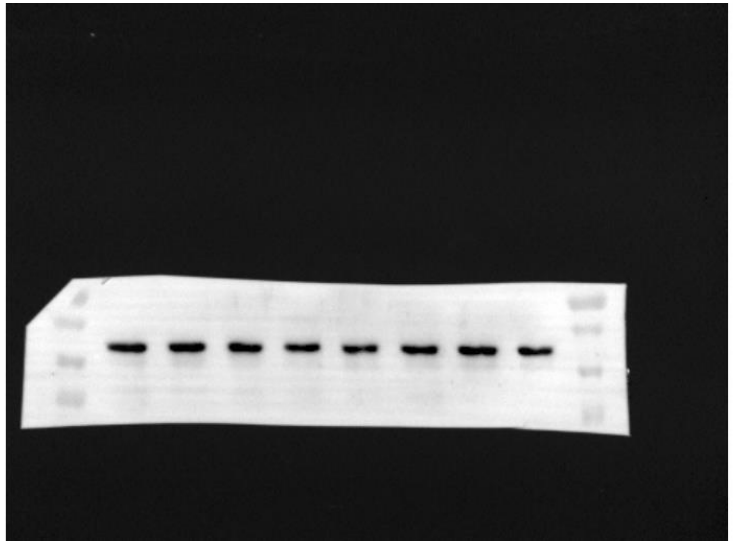

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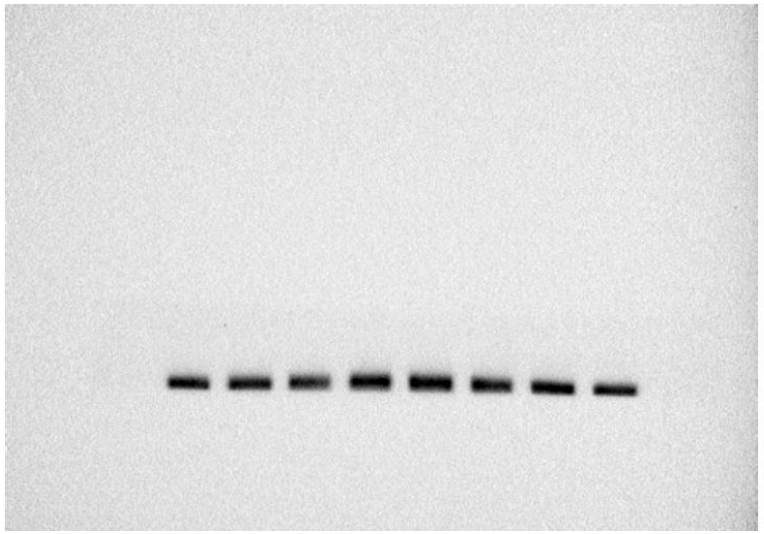
The original blot of β-actin VS MAPK



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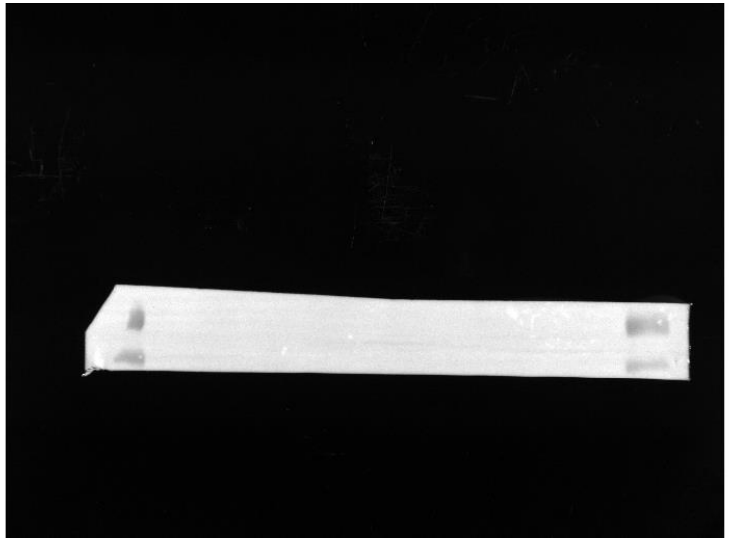

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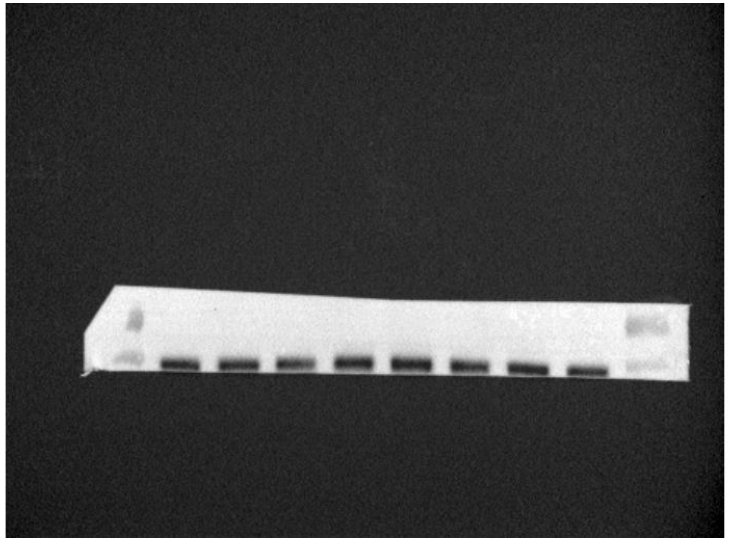

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Best wishes to you