

Title: Ceramide Kinase Regulates TNF- α -Induced Immune Responses in Human Monocytic Cells

Authors: Fatema Al-Rashed¹, Zunair Ahmad², Ashley J. Snider^{3,4}, Reeby Thomas¹, Shihab Kochumon¹, Motasem Melhem⁵, Sardar Sindhu⁶, Lina M. Obeid³, Fahd Al-Mulla⁵, Yusuf A. Hannun³, Rasheed Ahmad^{1*}

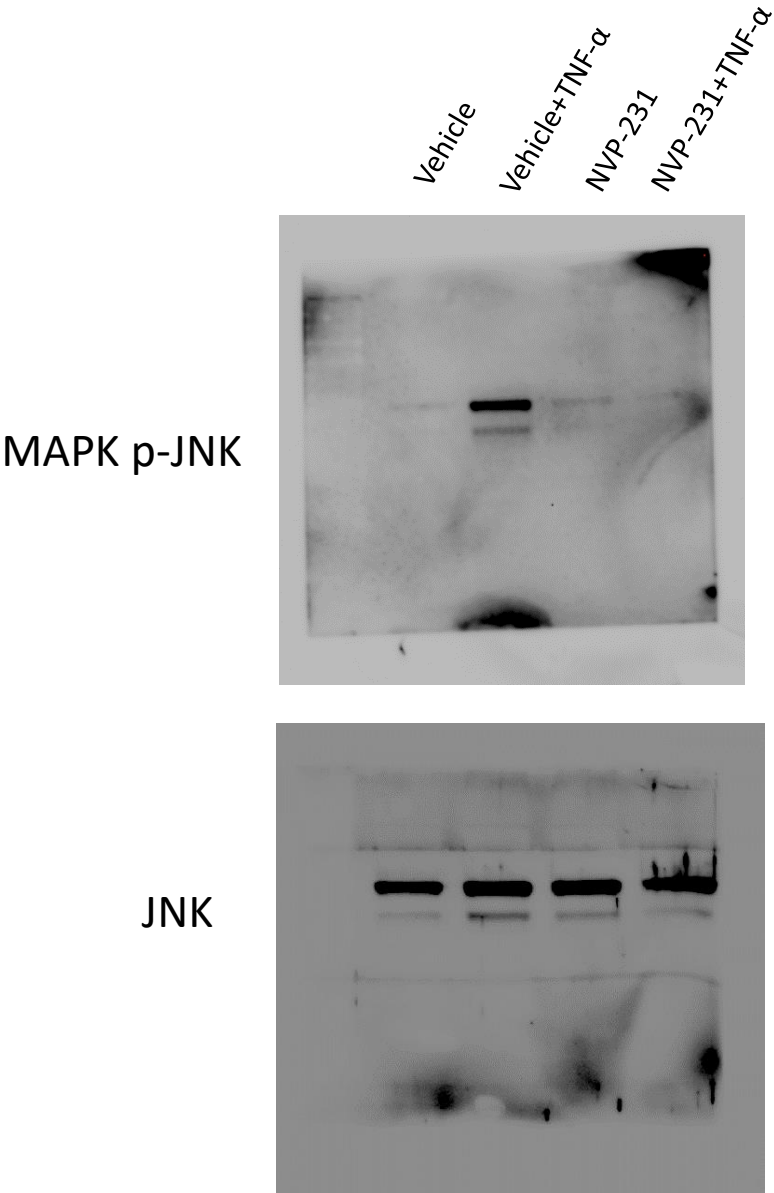
Affiliations: ¹Immunology & Microbiology Department, Dasman Diabetes Institute, Kuwait; ² Royal College of Surgeons in Ireland –Bahrain; ³Stony Brook Cancer Center and Department of Medicine, Stony Brook University, Stony Brook, NY 11794, USA; ⁴Department of Nutritional Sciences, College of Agriculture and Life Sciences, University of Arizona, Tucson, AZ 85721, USA; ⁵Genetics and Bioinformatics Department, Dasman Diabetes Institute, Kuwait; ⁶Animal and Imaging Core Facility, Dasman Diabetes Institute, Kuwait.

***Correspondence:** Rasheed Ahmad Ph.D., Immunology & Immunology Department, Dasman Diabetes Institute, Al-Soor Street, Kuwait, P.O. Box 1180 Dasman, 15462 Kuwait. Phone: 965 2224 2999 Ext. 4311; Fax: 965 2249 2406; E-mail: rasheed.ahmad@dasmaninstitute.org

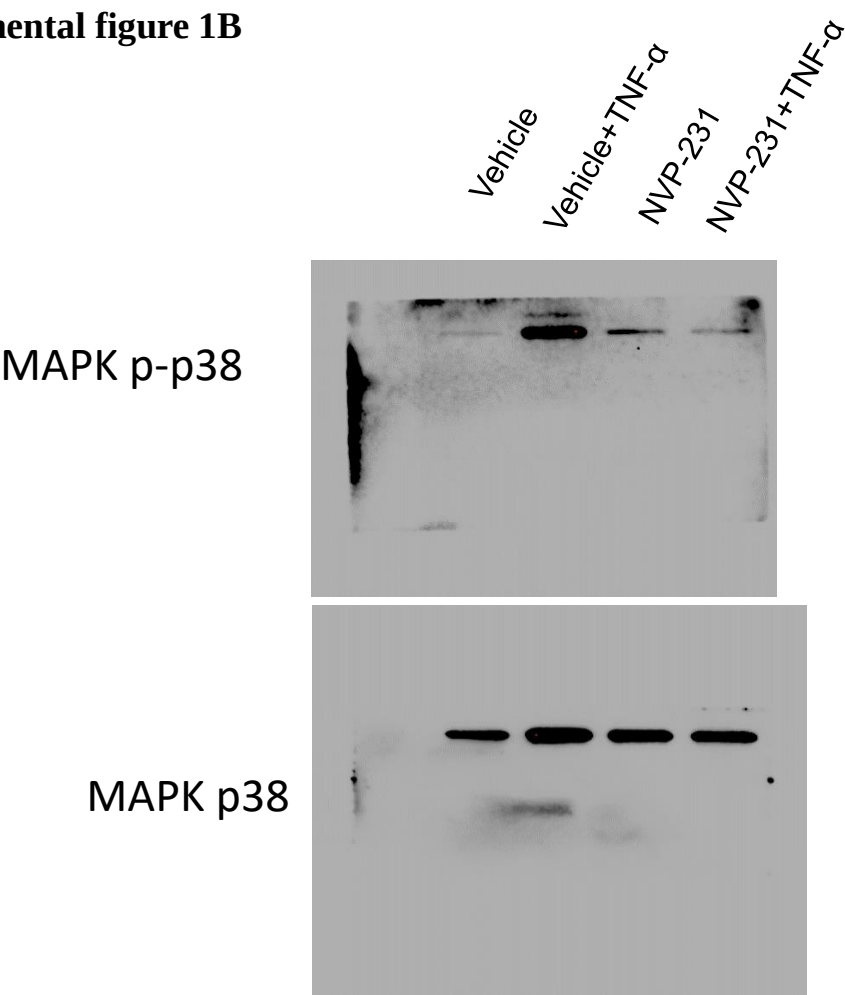
Supplemental Figure 1A-C (full western blot images for Figure 7):

THP1 monocytic cells were pretreated with CERK inhibitor (NVP-231: 12nM) and then incubated with TNF- α . Cell lysates were prepared as described in material and methods. Samples were run on denaturing gels. Immuno-reactive bands were developed using an Amersham ECL Plus Westren Blotting Detection System (GE Healthcare, Chicago, IL, USA) and visualized by Molecular Imager® ChemiDoc™ MP Imaging Systems (Bio-Rad Laboratories, Hercules, CA, USA). **(A)** Phosphorylated proteins of SPAK/JNK, **(B)** p38 and **(C)** NF-kB are shown in the upper panels with the lower panel representing respective total proteins.

Supplemental figure 1A



Supplemental figure 1B



Supplemental figure 1C

