Supplementary Information

Nrf2 activation does not affect adenoma development in a mouse model of colorectal cancer

Elena V. Knatko^a, Cecilia Castro^b, Maureen Higgins^a, Ying Zhang^a, Tadashi Honda^c, Colin J. Henderson^d, C. Roland Wolf^d, Julian L. Griffin^{b,e}, and Albena T. Dinkova-Kostova^{a,f}

^aJacqui Wood Cancer Centre, Division of Cellular Medicine, School of Medicine, University of Dundee, Dundee, DD1 9SY, Scotland, UK

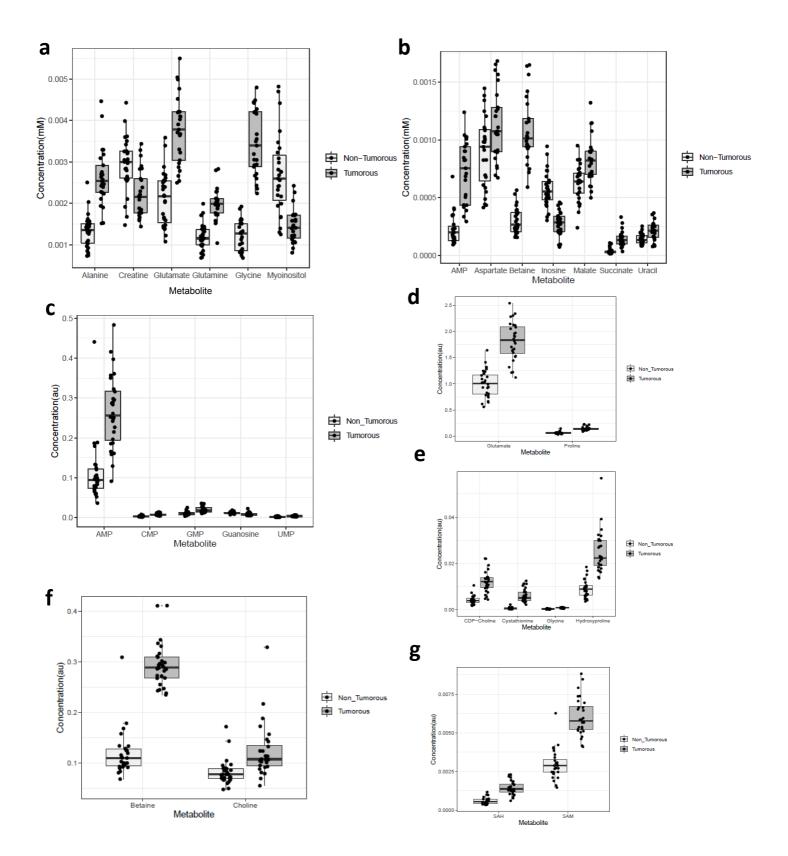
^bDepartment of Biochemistry and the Cambridge Systems Biology Centre, University of Cambridge, Cambridge, CB2 1QW, UK

^cDepartment of Chemistry and Institute of Chemical Biology & Drug Discovery, Stony Brook University, Stony Brook, NY 11794-3400, USA

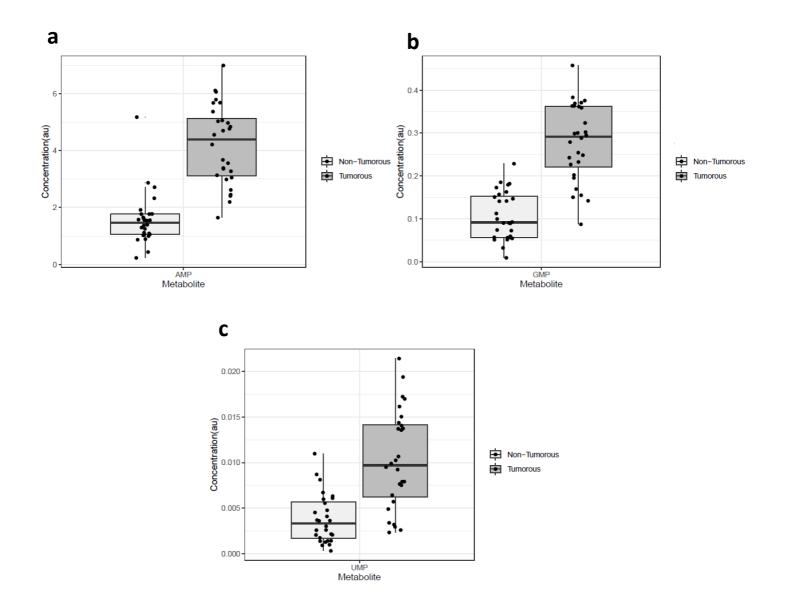
^dDivision of Systems Medicine, School of Medicine, University of Dundee, Dundee, DD1 9SY, Scotland, UK

^eSection of Biomolecular Medicine, Department of Metabolism, Digestion and Reproduction, Imperial College London, London SW7 2AZ, UK

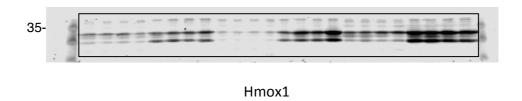
[†]Department of Pharmacology and Molecular Sciences and Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD 21205, USA

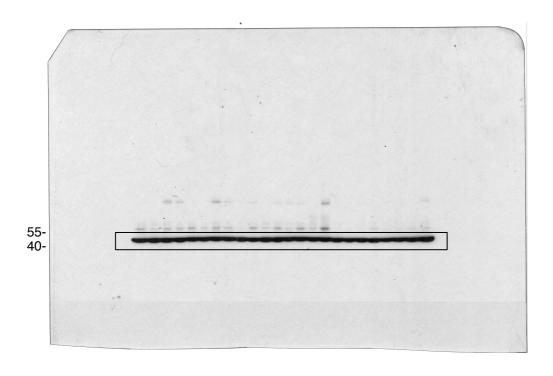


Supplementary Fig. 1. **Tumor and peri-tumoral tissues have different metabolic profiles. (a,b)** Concentration of selected metabolites in peri-tumorous (white bars) and tumorous (black bars) tissues as measured by NMR. In all cases p<0.001. (**c-f**) Concentration of selected metabolites in peri-tumorous (control, white bars) and tumorous (black bars) tissues as measured by LC-MS using the C18pfp-based method. For all metabolites, p<0.001.



Supplementary Fig. 2. Compared to peri-tumoral tissues, tumours have increased levels of AMP, GMP and UMP. Concentration of AMP (a), GMP (b), and UMP (c), in tissues of peri-tumorous (white bars) and tumorous (black bars) tissues in wild-type mice as measured by LC-MS using the behamide-based method. For all metabolite, p<0.001.





β-actin

Supplementary Fig. 3. Uncropped and unedited images of the immunoblots shown in Fig. 3i.