

Supplementary Table S3. Primary antibodies.

Target	antibody	Dilution (WB/IF)	Clone, reference	Supplier
VRK1	Mouse monoclonal	- / 1:1000	1B5	[1]
VRK1	Mouse monoclonal	1:1000 / -	1F6	[1]
VRK1	Rabbit polyclonal	1:1000 / -	VC	[1]
β -actin	Mouse monoclonal	1:2000 / -	AC15 A5441	Sigma-Aldrich
H3K4me3	Rabbit polyclonal	- /1:1000	9727	Cell signaling
H3K9ac	Rabbit polyclonal	- / 1:1000	07-352	Millipore
H3K9me3	Rabbit polyclonal	- /1:800	07-442	Millipore
H3K27ac	Rabbit polyclonal	- /1:1000	07-360	Millipore
Histone H3	Rabbit polyclonal	1:1000 / -	9715	Cell signaling
H4K16ac	Rabbit monoclonal	- / 1:1000	Ab109463	Abcam
8-oxoGuanine (8-oxoG)	Mouse monoclonal	- / 1:500	483.15 MAB3560	Millipore
GARS	Mouse monoclonal	- / 1:1000	VMA00198	Bio Rad

1. Valbuena A, Lopez-Sanchez I, Vega FM, Sevilla A, Sanz-Garcia M, Blanco S, Lazo PA: **Identification of a dominant epitope in human vaccinia-related kinase 1 (VRK1) and detection of different intracellular subpopulations.** *Arch Biochem Biophys* 2007, **465**(1):219-226. Doi 10.1016/j.abb.2007.06.005