

1 **Table S6** Mapping of epitope #5 based on 391 complete and partial amino acid sequences
 2 from the NCBI GenBank database.

Linear A27 epitope aa 68-71	OPXV genera	Number of DB entries
IEKC	VARV major	67/67
	VARV minor	2/2
	VACV	60/61
	BPXV	26/26
	HSPV	2/2
	RPXV	2/2
	CMLV	18/18
	CPXV	132/134
	ECTV	14/14
	MPXV	57/57
	TaPXV	3/3
	RCNV	1/1
	VPXV	1/1
	(aa 93-96) SkPXV	3/3
(aa 93-96) VACV	1/61	
IEKY	CPXV	1/134
<u>C-Terminus truncated</u>	CPXV	1/134

3 Differences within the epitope sequence are highlighted.