

Table S1 Reactivity of six A27-specific mAbs on the OPXV microarray chip. The amino acids marked in red are species-specific sequence variations to the VACV WR or epitope sequence exchanges.

Spot ID	Spot Designation	Sequence Variations	Epitope 1A	Epitope 1B	Epitope 1C	Epitope 1D	Epitope 4	Epitope 5		
			Epitope sequence according to SPOTs Membrane							
			REAIVKAD	PEAKRE	KKPEAK	PEAKREA	DDDLAI	IEKC		
			Epitope sequence according to OPXV Microarray Chip							
			KREAIVKAD	PEAKRE	PEAKRE	PEAKRE	PGDDDLAIPATE	n.d.		
2	VACV WR (AAO89429.1)	TLFPGDDDLAIPATE								
3		PGDDDLAIPATEFFS								
478	VACV WR (AAO89429.1)	LFPGDDDLAIPATEF								
479	SkPXV (AAQ72922.1)*	LFPGDDDM AIPATEF								
7	VACV WR (AAO89429.1)	FFSTKAACKPEAKRE								
8		TKAACKPEAKREAI V								
9		AKKPEAKREAI VKAD								
10		PEAKREAI VKAEDDD								
11		KREAI VKAEDDDNEE								
481	VARV (ABF26518.1)	AKKPEAKHEAI VKAD								
482	VACV (AAA48152.1)*	DKKPEAKREAI VKAD								
522	CMLV (CAA52999.1)*	AKKPEAKREAI IKAD								
483	CPXV (AAP48887.1)*	AKKPEAKREAI VKAE								
484	CPXV (AAP48888.1)	AKKPEAKREAFVKA E								
485	CPXV (AAQ72894.1)*	AKKQEAKREAI VKAE								
486	CPXV (AAQ72906.1)	AKKPEAKHEAI VKAE								
488	ECTV (CAA53000.1)*	AKKPEDKH EATVKAD								
489	MPXV (CAA52998.1)*	AKNPE TKREAI VKAY								
490	RCNV (ABD37609.1)	AKKPEAKRKVVEKAD								
491	VPXV (ABD37608.1)	AKKPEEKRKAVVKA E								
492	SkPXV (AAQ72922.1)*	AKKPEEPVKRKVVKN								
497	VARV (CAA47501.1)*	TKFEQIEKCCKRNDE								

*Accession number is representative for several sequences of this type. All GenBank accession numbers can be found in Table S2. Different shades of grey represent strength of the fluorescence intensity.

n.d.: not detected

 Weak reaction
 Strong reaction