

Supplementary Materials:

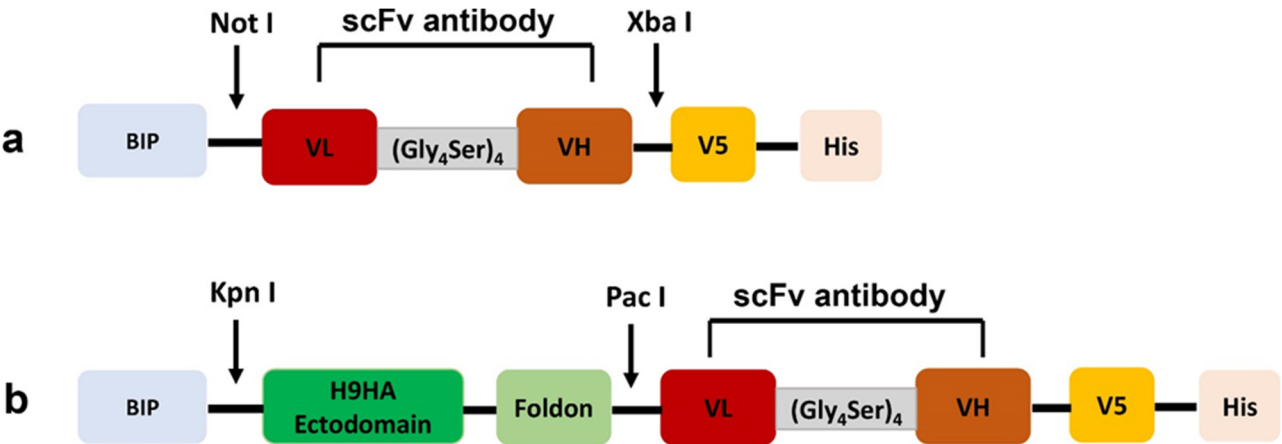


Figure S1. Schematic representation of single chain fragment variable antibody (scFv) and H9HA ectodomain fused scFv antibody expression cassettes (a) scFv construct. The expression cassette includes *Drosophila melanogaster* immunoglobulin heavy chain binding protein (BIP) secretion signal sequence followed by scFv antibody: variable light chain (vL), linker peptide (Gly₄Ser)₄ and variable heavy chain (vH). The V5 tag is for detection and His tag for purification (b) H9HA Foldon-scFv construct. The expression cassette includes BIP secretion signal sequence followed by H9HA ectodomain fused with trimerisation signal (indicated as foldon), conjugated to scFv antibody: variable light chain (vL), linker peptide (Gly₄Ser)₄ and variable heavy chain (vH).

Table S1. Sequences of probes and primers used for qRT-PCR.

Gene	Primer sequences (5'-3')	Probe sequence (5'-3')
IFN γ	F: GTGAAGAAGGTGAAAGA-TATCATGGA	FAM-TGGCCAA-GCTCCCGATGAACGA-TAMRA
	R: GCTTTGCGCTGGATTCTCA	
IL6	F: AACATGCGTCAGCTCCTGAAT	FAM- AGCAGCAC-CTCCCTCAAGGCACC-TAMRA
	R: TCTGCTAGGAACTTCTCCATT-GAA	
IL1 β	F: GCTC-TACATGTCGTGTGTGATGAG	FAM-CCACACTGCAGCTGGAG-GAAGCC-TAMRA
	R: TGTCGATGTCCCGCATGA	
IL4	F: AACATGCGTCAGCTCCTGAAT	FAM-AGCAGCACCTCCCTCAAGGCACC-TAMRA
	R: TCTGCTAGGAACTTCTCCATT-GAA	
RPLPO-1	R: TGGCACCGCAGCTCATT	FAM-CATCAC-TCAGAAATTTCAATGGTCCCTCGG G-TAMRA
	F: TTGGGCATCACCACAAAGATT	
	R: CCCACTTGTCTCCGGTCTTAA	

IFN: Interferon IL: Interleukin RPLPO-1: Ribosomal phosphoprotein lateral stalk subunit PO F: Forward R: Reverse FAM: 6-carboxyfluorescein TAMRA: Tetramethylrhodamine.