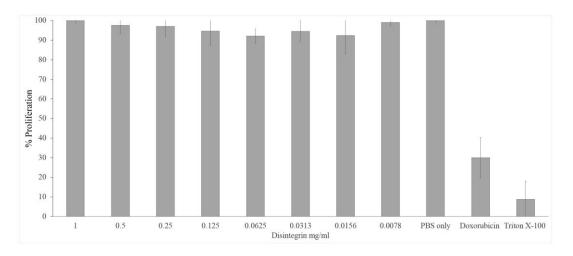
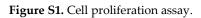
## Supplementary Materials: Examination of the Efficacy and Cross-Reactivity of a Novel Polyclonal Antibody Targeting the Disintegrin Domain in SVMPs to Neutralize Snake Venom

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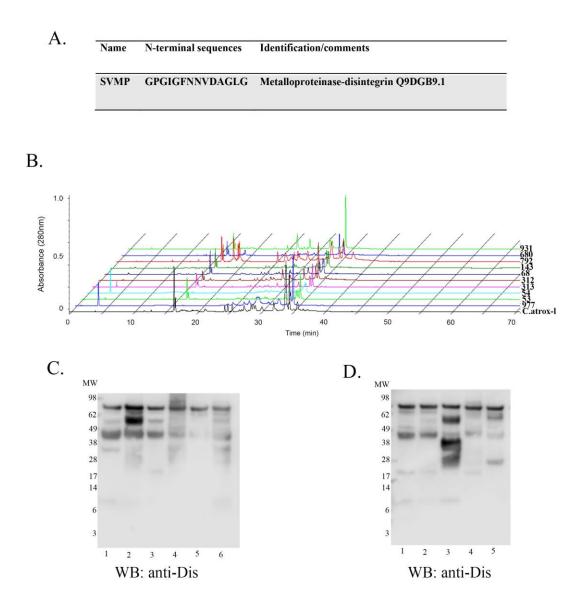


Figure S2. (A) N-terminal sequence of SVMP from C. o. helleri. The identity of the primary sequence was determined using Basic Local Alignment Search Tool (BLAST http://blast.ncbi.nlm.nih.gov/Blast.cgi). (B) HPLC profiles of crude venoms. A total of 500 µg was injected into a Reverse Phase C18 column as described in the Materials and Methods. (C) Western Blot of crude venoms probed with anti-disintegrin. Five micorgrams of crude venom was separated on SDS-PAGE and were transferred to an Immobilon® membrane (Millipore) using BioRad Trans-Blot SD Semi-Dry Transfer Cell at 100 V for 1 h and then leftover night. M: Seeblue® Plus 2 prestained standard (1X), lanes 1: C. atrox (Luke), Lane 2: C. atrox (977), Lane 3: C. atrox (53), Lane 4: C. atrox (54), Lane 5: C. atrox (313), Lane 6: C. atrox (312). (D) Western Blot crude venoms probed with antidisintegrin M: Seeblue® Plus 2 prestained standard (1X), lanes 1: C. atrox (68), Lane 2: C. atrox (143), Lane 3: C. helleri (792), Lane 4: C. helleri (680), Lane 5: C. s. scutulatus (931).

A.

	pid 1	[ <u>.</u> .			:			. ]	87
1 sp P34182 397-478	100.0%	TPVSGNELLEAGIECDCGSL	ENPCCYATTCK	RPGSQCAEGLCO		TV <mark>CR</mark> VSMVDRN	-DDT <mark>C</mark> TGQS	ADCPRNGLYG-	
2 sp C9E1R7 402-486	63.5%	PPVCGNYYTEVGEDCDCGPPANC	QNPCCDAATCK	VTTGSOCAEGLCO	DQCKFMKE	TVCRVARGDWN	-NDI <mark>CTGO</mark> S	AECPNKGYYG-	
3 sp Q90282 401-487	51.7%	PPVCGNELLEVGEECDCGTPENC	QNECCDAATCK	LKS <mark>GSQC</mark> GH <mark>G</mark> DCC	ECKESKS	TECRASMSECD	PAEHCTGOS	SECP ADVFHKN	
4 sp A4PBQ9 401-487	51.7%	PPVCGNELLEVGEECDCGTPENC	QNECCDAATCK	LKS <mark>GSOC</mark> GH <mark>G</mark> DCO	ECKESKS			SE <mark>CP</mark> ADVFHKN	
5 sp Q9DGB9 403-488	52.3%	PAVCENYFVEVEECDCCS	RDPCCDATTCK	L <mark>RQGAQCAEGLCO</mark>	DOCRFKGA	TE <mark>CR</mark> AAKDECD	MA <mark>DVCTG</mark> RS	AECTDRFQRN-	

	B

Species	Vial #	Location	MGD (mg/mL)	Neutralized	
C. atrox	Luke	Kleberg Co, TX	0.5	+	
C. atrox	977	Kleberg Co, TX	2	+	
C. atrox	53	San Patricio Co, TX	0.5	+	
C. atrox	54	San Patricio Co, TX	1	+	
C. atrox	313	Pima Co, AZ	0.25	+	
C. atrox	312	Tucson Co, AZ	0.25	+	
C. atrox	68	La Salle/ Dimmit Co, TX	0.25	+	
C.atrox	143	Culberson Co, TX	0.125	+	
C. o. helleri	792	NNTRC Serpentarium	2	+	
C. o. helleri	680	San Bernadino, Co. CA	0.125	+	
C. s. scutulatus	931	Pima, Co. AZ	0.5	+	

**Figure S3.** (**A**) Sequence alignment of C. atrox SVMP PII. The alignment was generated with the ClustalW2 multiple sequence alignment program (https://www.ebi.ac.uk/Tools/msa/clustalw2/). (**B**) Table of Snake, identification, location and MGD of venom tested using anti-disintegrin.