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612	SUPPLEMENTARY FIGURE LEGENDS			
613				
614	Figure S1. Cell adhesion on human SNED1 and murine Sned1			
615	(A) Coomassie-blue-stained polyacrylamide gel showing the quality and purity of affinity-purified			
616	full-length SNED1-His.			
617	(B) Murine O9-1 neural crest cells adhere to the same extent to human SNED1 and murine Sned1.			
618	Data is represented as mean \pm SD from three biological experiments. Unpaired Student's two-			
619	tailed t-test with Welch's correction was performed to test statistical significance. ns: non-			
620	significant.			
621	(C) Graph showing the adhesion of immortalized embryonic fibroblast cells isolated from <i>Sned1</i>			
622	knockout mice (Sned1 ^{KO} iMEF) on increasing concentrations of Sned1.			
623				
624	Figure S2. LM2 cell adhesion on equimolar concentration of full length SNED1 and			
625	SNED1 ¹⁻²⁶⁰			
626	Graph showing LM2 cell adhesion on 66.3 μ M of full length SNED1 and SNED1 ¹⁻²⁶⁰ .			
627				
628	Figure S3. Purification of integrin-binding mutants of SNED1			
629	Coomassie-blue-stained polyacrylamide gels showing the quality and purity of affinity-purified			
630	His-tagged SNED1 ^{RGE} (A), SNED1 ^{LAV} (B), and SNED1 ^{RGE/LAV} (C). The different bands			
631	correspond to different levels of glycosylation of the proteins, as previously shown (Vallet et al.,			
632	2021).			
633				
634	Figure S4. The RGD motif in SNED1 ¹⁻²⁶⁰ is sufficient to mediate cell adhesion			
635	Adhesion of MDA-MB-231' LM2' breast cancer cells (A) and O9-1 neural crest cells (B) to the			
636	N-terminal fragment of SNED1 (SNED1 ¹⁻²⁶⁰) is significantly decreased in presence of the integrin-			
637	binding cRGDfV peptide. Data is represented as mean \pm SD from three biological experiments.			

638 Unpaired Student's two-tailed t-test with Welch's correction was performed to determine 639 statistical significance. p<0.05, p<0.01.

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- Figure S5. Functional blocking of integrin α4 does not affect breast cancer cell adhesion on
 SNED1
- 643 **SNED1**
- 644 (A) Immunoblot on total cell extract from MDA-MB-231' LM2' and O9-1 cells showing α4
- 645 integrin expression.
- (B) Adhesion of MDA-MB-231' LM2' breast cancer cells to SNED1 is not altered in presence of
- 647 anti- α 4 integrin-blocking antibody. Data is represented as mean ± SD from three biological
- 648 experiments. Unpaired Student's two-tailed t-test with Welch's correction was performed to test
- 649 statistical significance. ns: non-significant.
- 650

651 Figure S6. Immunoblot transparency

652 Uncropped immunoblots for β 1 integrin, α 5 integrin, α v integrin, β 3 integrin, and α 4 integrin.

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653 Supplementary Table 1: List of primers

654

Primer	Sequence	Purpose	
BallI-KOZAK-		Subcloning SNED1 into	
ATC SNED1He E	5' TCGAAGATCTGCCACCATGCGGCACGGCGTCGC 3'	retroviral pMSCV-IRES-	
AIG-SNEDIIIS_I		Hygro vector	
		Shuttling of SNED1-His	
Upol Stop His	5'GATGTTAACTTAGTGGTGATGGTGATGATGAGATTTCTCCAGTGTCTGACTCT	WT, RGE, LAV, or	
SNED114 D		GE/LAV) into retroviral	
SNEDIHS_K	TACI 5	pMSCV-IRES-Hygro	
		vector	
	5' CCGTTAACTTACTTGTCGTCATCGTCTTTGTAGTCGCACTGGGGAGGCTCAC 3'	Subcloning SNED11-571	
Heal Stop ELAC		into retroviral pMSCV-	
Hpai-Stop-FLAG-		IRES-Hygro vector with	
NFS_K		the addition of a C-	
		terminal FLAG tag	
	5' CCGTTAACTTACTTGTCGTCATCGTCTTTGTAGTCGACGCAGAGGTAGCTCCC	Subcloning SNED1 ¹⁻⁵³⁰	
Haal Stop ELAG		into retroviral pMSCV-	
NE P		IRES-Hygro vector with	
INI'_IX	5	the addition of a C-	
		terminal FLAG tag	
SNED1_c120a _F	5' CCGAGCGCGGCGAAGCCGTCACC 3'	Introduction of the c120>a	
		(pG40E) point mutation to	
SNED1_c120a _R	5' GGTGACGGCTTCGCCGCGCTCGG 3'	generate SNED1 ^{RGE}	
SNED1_a932c_F	5' GGAGGTGCCACCTGGCCGTGAACGAATGTGC 3'	Introduction of the a932>c $(pD311A)$ point mutation	
SNED1_a932c_R	5' GCACATTCGTTCACGGCCAGGTGGCACCTCC 3'	to generate SNED1 ^{LAV}	
1		1	

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656 Supplementary Table 2: List of antibodies used for functional blocking and immunoblotting

657

				Concentration	
Antibody	Host species	Reactivity	Application	used (µg/mL)	Catalog #
			Functional	10	Sigma,
Anti- β1 Integrin	Rat	Human	blocking	10	MABT821
			Functional	10	Sigma,
Anti-α5 Integrin	Rat	Human	blocking	10	MABT820
			Functional	10	Sigma MAB1383
Anti-α4 Integrin	Mouse	Human	blocking	10	Sigina, Wirdb 1505
			Functional	10	BD Biosciences,
Anti-β1 Integrin	Hamster	Mouse	blocking	10	BDB555002
			Functional	10	Biolegend,
Anti-α5 Integrin	Rat	Mouse	blocking	10	103817
Anti-αvβ3			Functional	10	Sigma,
Integrin	Mouse	Human	blocking	10	MAB1976Z
		Isotype	Functional	10	Invitrogen,
Rat IgG	Rat	control	blocking	10	PI31903
		Isotype	Functional	10	Invitrogen,
Mouse IgG	Mouse	control	blocking	10	PI31933
		Isotype	Functional	10	Biolegend,
Hamster IgM	Hamster	control	blocking	10	401014
Anti-SNED1	Rabbit	Human	Immunoblotting	1	Naba lab
			Immunoblotting	1	Sigma,
Anti-His	Mouse	-	minunoolotting	1	SAB2702218
Anti-FLAG	Rabbit	-	Immunoblotting	1	Sigma, F7425
Anti-β1 Integrin		Human,	Immunohlotting	1.1000 dilution	In house
sera	Rabbit	Mouse	minunobiotting	1.1000 dilution	III-IIOuse
		Human,	Immunoblotting	0.217	Abcam,
Anti-α5 Integrin	Rabbit	Mouse	minunoolotting	0.217	AB150361
		Human,	Immunoblotting	0.5	Invitrogen,
Anti-α4 Integrin	Rabbit	Mouse	minulioblotting	0.5	MA5-27947
		Human,	Immunoblotting	1	Invitrogen,
Anti-av Integrin	Rabbit	Mouse		1	MA5-32195
		Human,	Immunoblotting	1	Invitrogen,
Anti-β3 Integrin	Rabbit	Mouse	minunoolotting		MA5-32077

658

Figure S1. Cell adhesion on human SNED1 and murine Sned1



Figure S2. LM2 cell adhesion on equal molar concentration of full length SNED1 and SNED1¹⁻²⁶⁰

A)





Figure S3. Purification of integrin binding mutants of SNED1



Figure S4. The RGD motif in SNED1¹⁻²⁶⁰ is required for cell adhesion



Figure S5. Functional blocking of α 4 integrin does not affect breast cancer cell adhesion to SNED1



Figure S6. Immunoblot transparency



Figure S5A α4 integrin

