

Table S1. Quantitation of Dounce strokes based on mean gray values of western blot protein bands. Only control lysosomes (C. Lysosomes) were analyzed for optimal Dounce stroke determination.

		(255 - mean gray value)			(255 – Background)	(Inv. gray value – Inv. Background)	
Cell lysate	# of Dounce strokes	Mean gray value	Inverted gray value	Background	Inverted Background	Net gray value	
LIMP2	30	222.803	32.197	247.986	7.014	25.183	
	50	204.347	50.653	247.997	7.003	43.65	
	70	205.359	49.641	247.957	7.043	42.598	
Calreticulin (Cal.)	30	247.425	7.575	248	7	0.575	
	50	247.114	7.886	248	7	0.886	
	70	247.407	7.593	248	7	0.593	
C. Lysosomes							
	LIMP2	30	190.433	64.567	248	7	57.567
		50	135.735	119.265	247.949	7.051	112.214
	70	135.098	119.902	248	7	112.902	
Calreticulin (Cal.)	30	248	7	248	7	0.067	
	50	247.93	7.07	247.943	7.057	0.12	
	70	247.906	7.094	248	7	0.094	
		Cell lysate: Net LIMP2/Net Cal.	C. Lysosomes: Net LIMP2/Net Cal.	Cell lysate: (Net LIMP2/Net Cal.) / Lysosomes: (Net LIMP2/Net Cal.)	Approx. Fold-purity		
	30	43.80	859.21	19.62	~20		
	50	49.27	935.12	18.98	~19		
	70	71.83	1201.09	16.72	~17		