

### Supplemental Figures

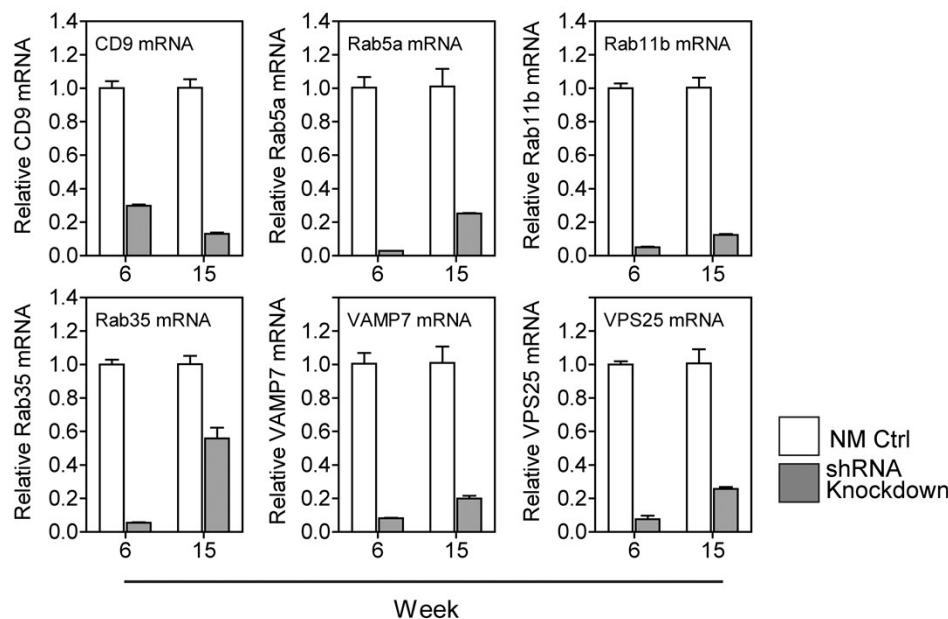
**Figure S1. Stability of lentivirus transduced DU145 cells.** Lentivirally transduced cells were maintained in continuous culture with two-passages per week. At 6 weeks, or 15 weeks, TaqMan™ gene expression assays performed for the specified targets. Bars represent triplicate measures  $\pm$ S.D., and compare relative target expression in non mammalian control (NM Ctrl) cells to targeted shRNA knockdown cells.

**Figure S2. Confirmation of shRNA targeting of RAB11B and RAB35.** Secretion of nano-vesicle was tested for an additional shRNA sequence targeting RAB11B or RAB35. NTA analysis revealed a similar, small mostly <200nm particulate population (A) with no significant difference in histogram mode (B). Examining particles per cell confirmed perturbation of secretion with RAB11B (shRNA sequence #558) or RAB34 (sequence #796) of 26% or 21% respectively. Bars represent mean $\pm$ S.D of 6 replicates (\*P<0.05, 1-way Anova with Tukey's post test).

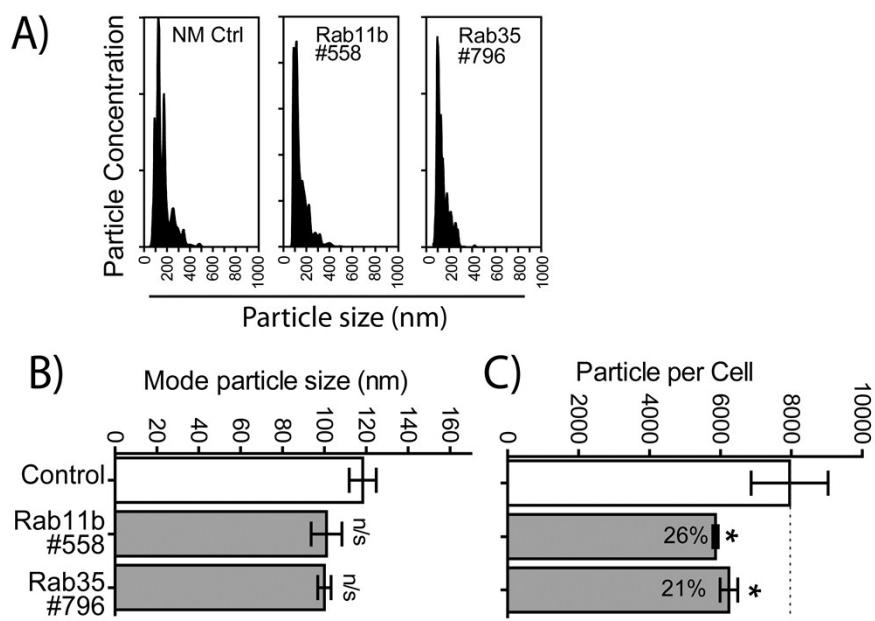
**Figure S3. Perturbations in late but not early endosomes.** Du145 cells (NM Ctrl, RAB11B or RAB35 knockdowns) were seeded identically onto glass coverslip chamber slides, and at 48h were fixed and stained for markers of endosomes CD63 (A), LAMP1 (B), CD63 (C) or a marker of early/recycling endosomes EEA1 (D). Images were taken using structured illumination, using a 63x/1.4 numerical aperture oil-immersion objective. Shown are representative figures from z-axis sections overlaid to generate maximum projection images (Zeiss Z1 Observer, Cambridge, UK, running Zen Pro Software).

**Figure S4. Protein Profiling Array.** Samples were examined for differences in protein expression levels using a 92-plex protein array covering an assortment of growth factors, chemokines and other components associated with inflammation (Proseek Inflammation Panel, Olink). In cell conditioned media 46 analytes reported with signal below the assay limits of detection (LOD), and a further 8 fell below LOD for the vesicle concentrates. The Venn diagram, and array coverage lists identify those detected and not detected in each category.

Fig S1



**Fig S2.**



**Fig S3**

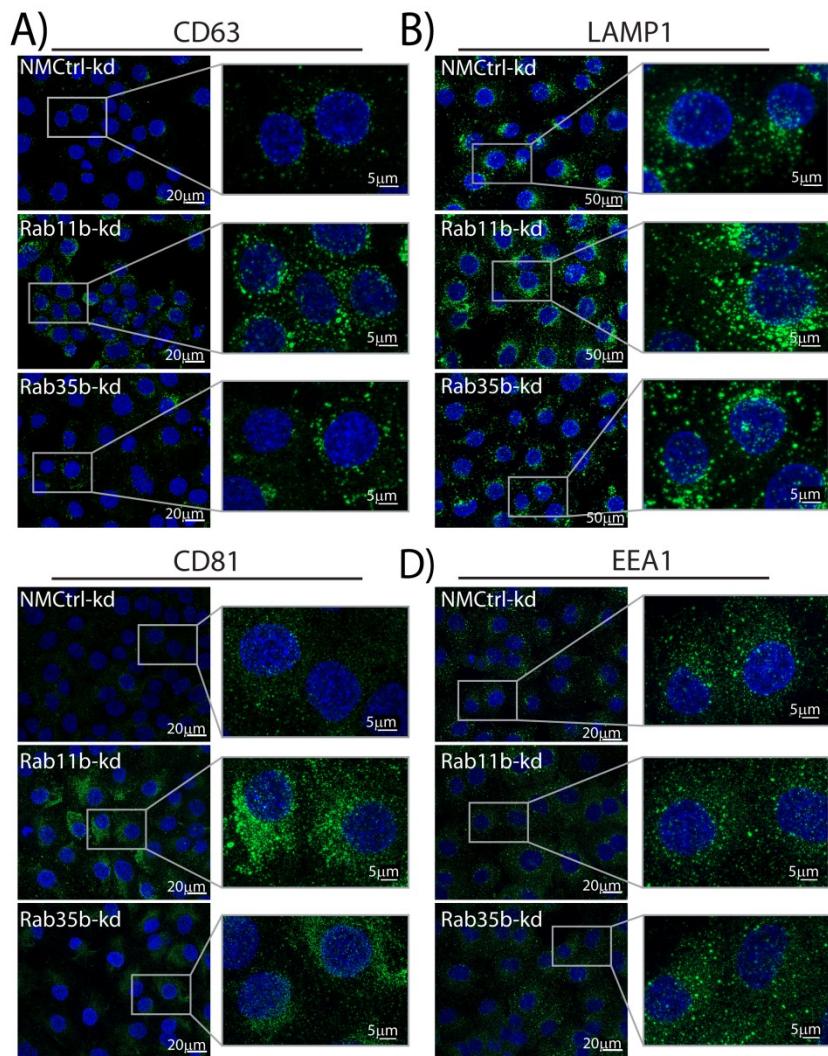


Fig S4.

92 Total Analytes

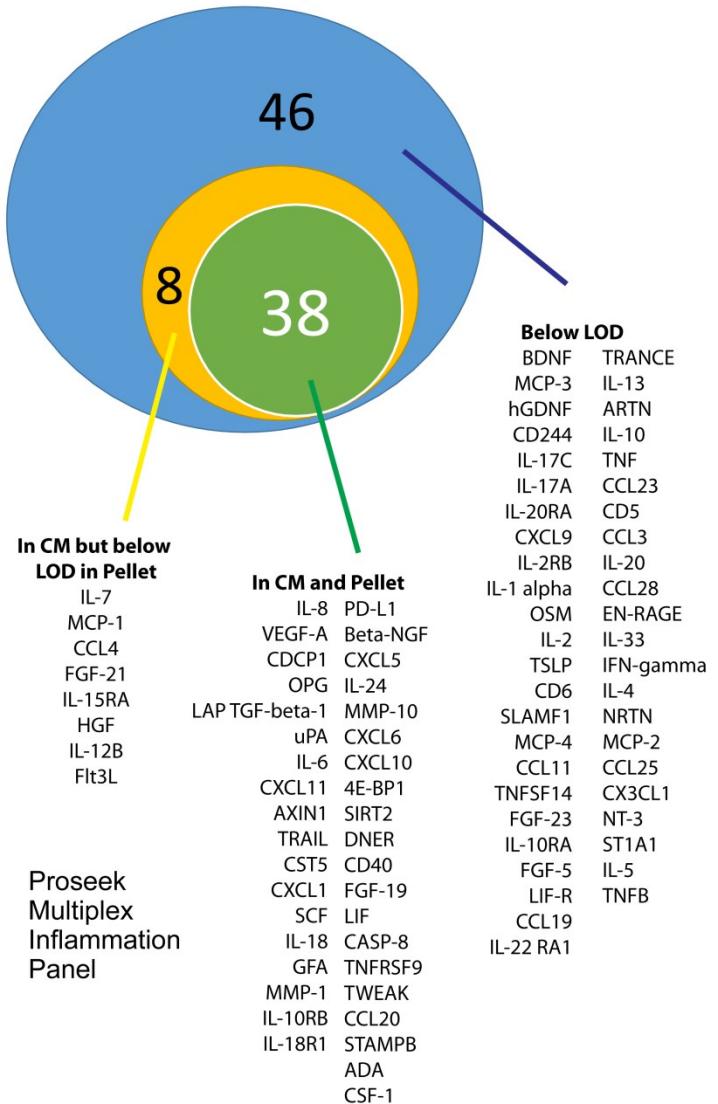


Table S1

Target	TRC Number	Sequence	Clone ID
<b>CD9</b>	TRCN0000296953 (#953)	CCGGTTCTACACAGGAGTCTATATTCTCGAGAATATAGACTCCTGTGTAGAATTTTG	NM_001769.2-277s21c1
	TRCN0000296958 (#958)	CCGGCCTGCAATGAAAGGTACTATACTCGAGTATAGTACCTTCATTGCAGGTTTTG	NM_001769.2-1072s21c1
	TRCN0000291711 (#711)	CCGGGCTGTCGGATTAACTTCATCTCGAGATGAAGTAAATCCGAACAGCTTTTG	NM_001769.2-150s21c1
	TRCN0000057469 (#469)	CCGGCATTGGACTATGGCTCCGATTCTCGAGAATCGGAGGCCATGTCATGTTTTG	NM_001769.2-201s1c1
	<b>TRCN0000057470 (#470)</b>	<b>CCGGGCTGTCGGATTAACTTCATCTCGAGATGAAGTAAATCCGAACAGCTTTTG</b>	<b>NM_001769.2-150s1c1</b>
<b>Rab5a</b>	TRCN0000380597 (#597)	GTACCGGGAGAGTCCGCTGTTGGCAAATCTGAGATTGCCAACAGCGGACTCTTTTTG	NM_004162.4-615s21c1
	<b>TRCN0000380466 (#466)</b>	<b>GTACCGGCAAGGCCGACCTAGCAAATAACTCGAGTTATTGCTAGGTCGGCCTGTTTTG</b>	<b>NM_004162.4-934s21c1</b>
	TRCN0000273641 (#641)	CCGGGCAGCCTTCCTTCCAAAGTCTCGAGAACCTTGGAAAGGAAGGCTGTTTTG	NM_004162.4-2298s21c1
	TRCN0000011215 (#215)	CCGGGCAGCCTTCCTTCCAAAGTCTCGAGAACCTTGGAAAGGAAGGCTGTTTTT	NM_004162.3-2139s1c1
	TRCN0000007974 (#974)	CCGGCCAGGAATCAGTGTAGACTCGAGTACTACAACACTGATTCTGGTTTT	NM_004162.3-999s1c1
<b>Rab11b</b>	<b>TRCN0000381919 (#919)</b>	<b>GTACCGGTTGCTGCACCCATGAAAACCTCTCGAGGAGTTCATGGGTGCAGCAAATTTTG</b>	<b>NM_004218.3-951s21c1</b>
	TRCN0000381558 (#558)	GTACCGGAGACAGCAACATCGTCATCATCTCGAGATGATGACGATGTTGCTGTTTTTG	NM_004218.3-435s21c1
	TRCN0000380618 (#618)	GTACCGGCATTCAAGAACATCCTCACAGCTCGAGCTGTGAGGATGTTCTGAATGTTTTG	NM_004218.3-587s21c1
	TRCN0000029185 (#185)	CCGGCCTATTCAAAGTGGTCTCATCTCGAGATGAGCACCACCTTGAATAGGTTTT	NM_004218.1-36s1c1
	TRCN0000029188 (#188)	CCGGCAAGCACCTGACCTATGAGAACCTCGAGTTCTAGGTCAGGTGCTGTTTT	NM_004218.1-288s1c1
<b>Rab35</b>	<b>TRCN0000380335 (#335)</b>	<b>GTACCGGTGATGATGTTGCCGAATATTCTCGAGAATATTCGGCACACATCATTTTG</b>	<b>NM_006861.4-475s21c1</b>
	TRCN0000380080 (#080)	GTACCGGTTCACGAAATCAACCAGAACTCTCGAGAGTTCTGGTGAATTCTGTGAATTTTG	NM_006861.4-453s21c1
	TRCN0000380003 (#003)	GTACCGGGAGAATGTCAACGTGGAAGACTCGAGTCTCCACGTTGACATTCTCTTTTG	NM_006861.4-601s21c1
	TRCN0000047796 (#796)	CCGGAGAGCAGTTACTGTTGCGTCTCGAGAACGCAACAGTAAACTGCTTTTTG	NM_006861.4-207s1c1
	TRCN0000047794 (#794)	CCGGCCTCCGAGCAAAGAAAGACAACCTCGAGTTGCTTTCTGCTCGAGGTTTTG	NM_006861.4-649s1c1
<b>VAMP7</b>	TRCN0000379810 (#810)	GTACCGGATGAGAGAACAGGAGTTAAACTCGAGTTAACCTCTGTTCTCTCATTTTTG	NM_005638.4-867s21c1
	TRCN0000298636 (#636)	CCGGCGAGTTCTCAAGTGTCTAGCTCGAGCTAACACTGAGAACACTGCTTTTG	NM_005638.4-485s21c1
	TRCN0000298637 (#637)	CCGGTCTTATGAGCTATCTAAACTCGAGTTAGTAGATAGCTCATAGATTGTT	NM_005638.4-1157s21c1
	<b>TRCN0000293928 (#928)</b>	<b>CCGGGGAAAGAAGAAGTTACCATTAACCGAGTAATGGTAACCTCTCTGTTTTG</b>	<b>NM_005638.4-837s21c1</b>
	TRCN0000059888 (#888)	CCGGCGAGGGAGAAAGATTGAAATTCTCGAGAATTCCAATCTTCTCCTCGCTTTTG	NM_005638.3-561s1c1
<b>VPS25</b>	TRCN0000381980 (#980)	GTACCGGAGTCCAGCTCCTGATCATGTCAGACATGATCAGGAAGCTGGACTTTTTG	NM_032353.2-321s21c1
	TRCN0000322763 (#763)	CCGGCCCTTACTTCTACCTCCCACCTCGAGTGGGAGGTAAGAAGTAAAGGGTTTTG	NM_032353.2-585s21c1
	TRCN0000322707 (#707)	CCGGAGTCGATCCAGATTGTATTAGCTCGAGCTAACATCTGGATCGACTTTTG	NM_032353.2-255s21c1
	<b>TRCN0000144757 (#757)</b>	<b>CCGGGAGTCGATCCAGATTGTATTACTCGAGTAATACAATCTGGATCGACTTTTG</b>	<b>NM_032353.2-254s1c1</b>
	TRCN0000143764 (#764)	CCGGCCTGTCCTCCCTTACTTCTACTCGAGTAAGAAGTAAAGGGAGACAGGTTTTG	NM_032353.2-578s1c1