

Table S1. Commercial antibodies used for WB and IF

Antibody	Host Species	Clone	Source	Dilution WB	Dilution IF
Anti-Rab4	rabbit	-	StessMarq	-	1:1000
Anti-Rab5	mouse	1/Rab5	BD Biosciences	1:500	-
Anti-Rab7	mouse	D-4	Santa Cruz	1:250	-
Anti-Rab8	mouse rabbit	63-BJ -	Santa Cruz Cell Signaling	1:250 1:1000	- 1:400
Anti-Rab11	mouse rabbit	A-6 -	Santa Cruz Cell Signaling	1:250 1:1000	- 1:50
Anti-Rab29	mouse rabbit	- -	AbCam	1:1000 1:500	- -
Anti-dynein	mouse rabbit	74.1 -	Millipore AbCam	1:500 1:1000	- -
Anti-Kif3A	rabbit	-	Sigma	1:500	-
Anti-CD19 FITC	mouse	4G7	BioLegend	-	-
Anti-CD3 ϵ	goat	-	Santa Cruz	1:500	-
Anti-CD3 ζ	mouse	6B10.2	Santa Cruz	1:50	1:15
Anti-Erk2	rabbit	-	Santa Cruz	1:500	-
Anti-P-p44/42 MAPK (Erk1/2)	rabbit		Cell Signaling	1:500	-
Anti-pTyr	mouse	4G10 [®]	Millipore	1:500	1:100
Anti-actin	mouse	C4	Millipore	1:2000	-
Anti-GFP	mouse rabbit	3E6 -	Life Technologies	1:1000 1:1000	- 1:400
Anti-Integrin β 1	mouse	47BR	Santa Cruz	-	1:100
Anti-GM130	mouse	35/GM130	BD Biosciences	-	1:100
Anti-TGN46	sheep		AbD Serotec	-	1:1000
Anti- γ -tubulin	mouse rabbit	GTU-88 -	Sigma	- -	1:200 1:200
Anti-tubulin acetylated	mouse	6-11B-1	Sigma	-	1:100

Table S2. esiRNAs used for Rab29KD

Gene Symbol	esiRNA sequence
hRAB29	AGAACGGTTTCACAGGTTGGACAGAAACATCAGTCAAGGAGAAC AAAAATATTAATGA
mRAB29	GCGTTTCACATCCATGACACGACTCTACTATAGAGATGCTTCTGC CTGTGTTATTATGT
RLUC	GATAACTGGTCCGCAGTGGTGGGCCAGATGTAAACAAATGAATG TTCTTGATTCATTTA

RAB: Ras-related protein; RLUC: Renilla Luciferase; h: human; m: mouse.

Table S3. Primers used for qRT-PCR

Gene Symbol	Forward primer 5'-3'	Reverse primer 5'-3'
hRAB29	CGTCTAGGGAATCGAGGTGC	CAGCTCCTTACACCACTGGG
hRAB32	TCCAAATGGCAGCCCTATCC	CATCCGGCAAAGCCATGTTC
hRAB38	TGGGATATCGCAGGTCAAGAAA	ACCGGTTTGCCATTAGGGAG
hRAB5	ACCATTGGGGCTGCTTTTCT	GCTGCTTGTGCTCCTCTGTA
hHPRT1	AGATGGTCAAGGTCGCAAG	GTATTCATTATAGTCAAGG
mRab29	GCAAGCTCACACTACCCAGT	AACGAGGACTCTCATGGCCT
mRab32	CCATGGCTTCACTGGATGGT	GGCACAGAGACACATCAGCA
mRab38	CACATTTGAAGCCGTGGCAA	GCACATCCTTCCCTTGGTCA
mRab5	CCAACGGGCCAAATACTGGA	ACAAGCGAAGAACCAGGCT
mGapdh	AACGACCCCTTCATTGAC	TCCACGACATACTCAGCAC

RAB: Ras-related protein; HPRT1: hypoxanthine phosphoribosyltransferase 1; GAPDH: glyceraldehyde-3-phosphate dehydrogenase; h: human; m: mouse.