

S2.1 Fig. Multiple sequence alignment of Rab1 and Rab11 sequences. Residues that are conserved in all sequences are highlighted in yellow and residues that are conserved in two or more sequences are highlighted in green.

	G1			G2	
	10	20	0 30	40	50
Rabila		-		FTRNEFNLES	
Rab11b				FTRNEFNLES	
Rabiibi	INTRODE ID I	LERVYLIGDS	OVORSHELSK	E TRALENCES	KS I TOVEFAI
G3					
	60		0 80	90 90	100
			-	-	
Rab11a				YRGAVGALLV	
Rab11b	RSIQVDGKTI	KAQIWDTAGQ	ERYRAITSAY	YRGAVGALLV	YDIAKHLTYE
G4					
	110	120	0 130	140	150
Rab11a	NVERWLKELR	DHADSN-IVI	MLVGNKSDLR	HLRAVPTDEA	RAFAEKNGLS
Rab11b1	NVERWLKELR	DHADSN-IVI	MLVGNKSDLR	HLRAVPTDEA	RAFAEKONLS
	G5				
	160	170	180	190	200
Rab11a				OMSDRRENDM	
Rab11b	FIEISALDST	NVERAFRAT	TETTRIVSOR	QIADRAAHDE	SPONNVUIS
210					
Rab11a	VPPTTENKP-				
D-L44L1	TTDDTTDOKO	MUL COCCONT!			

Rab11b| VPPTTDGQKP NKLQCCQNL

S2.2 Fig. Pairwise sequence alignment of Rab11a and Rab11b. The G loops are colored in red. The amino acid variations in Rab11b sequence compared to those of Rab11a are highlighted in green.