(A)

(B)

(C)

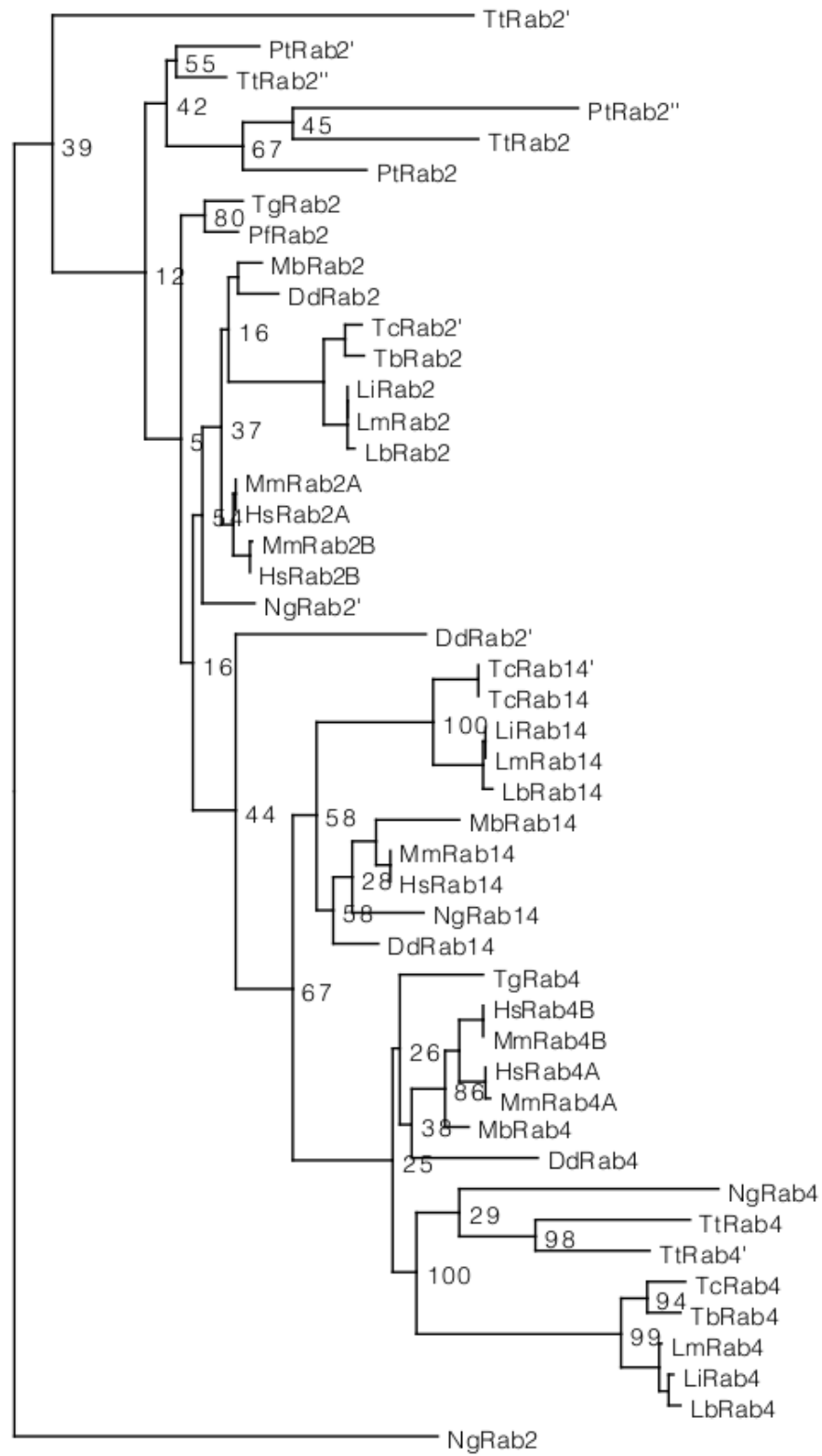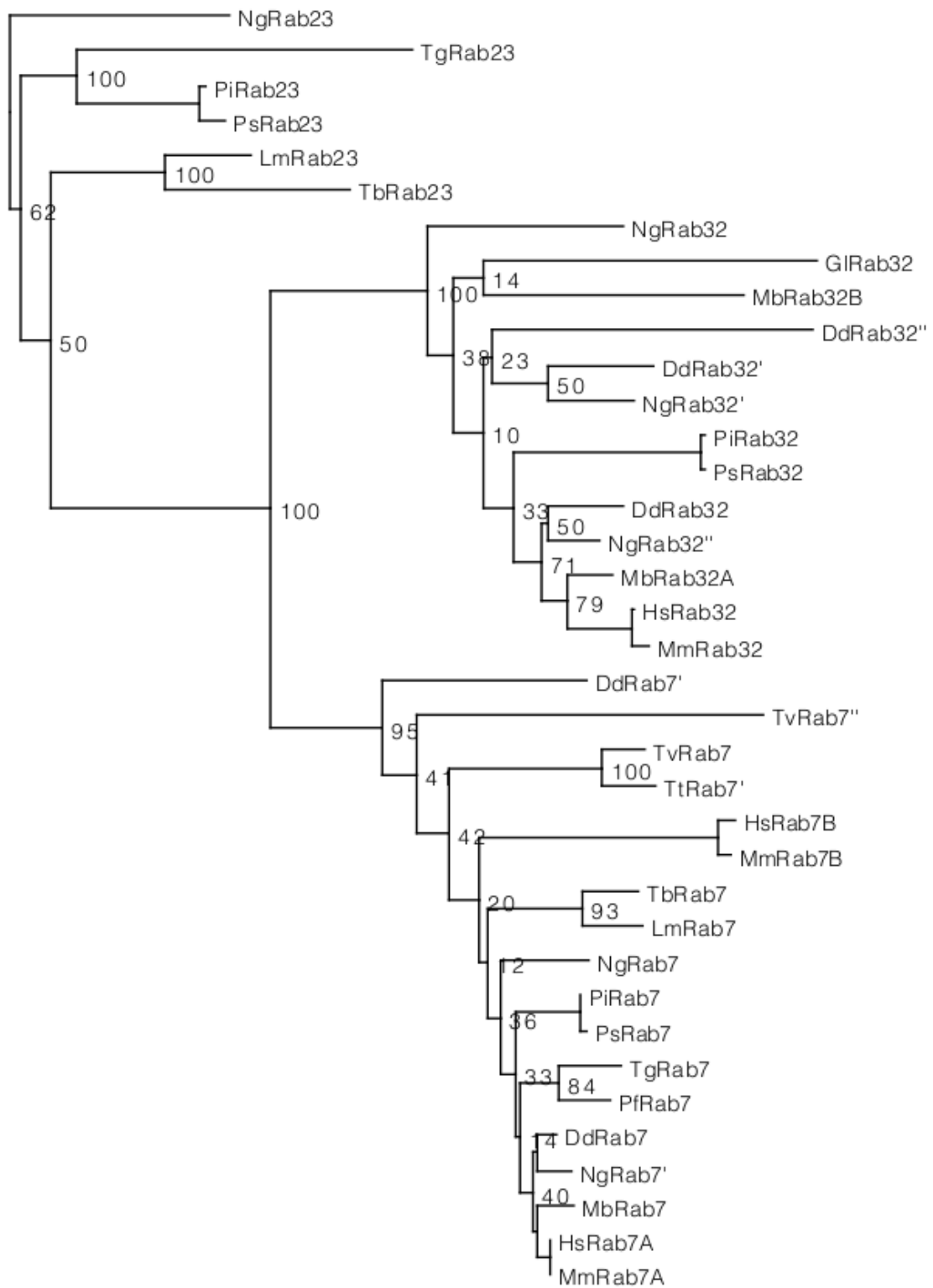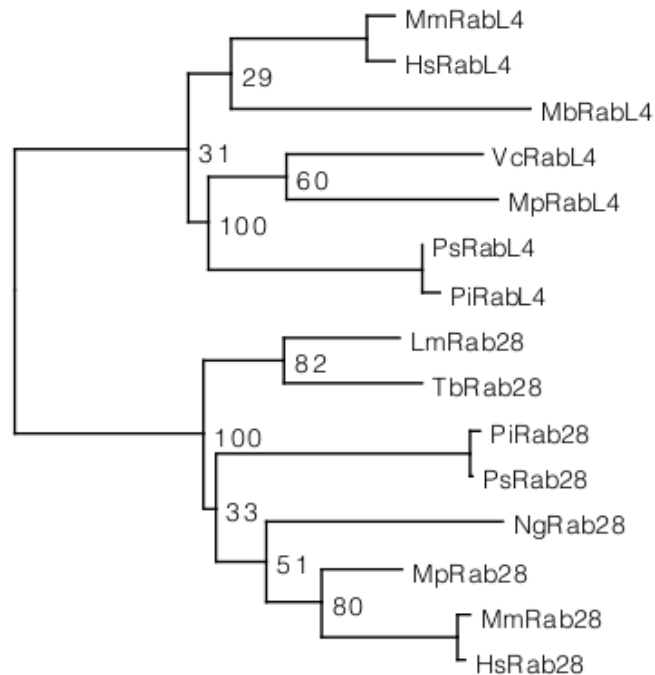**Figure S4. Phylogenetic trees of some Rab subfamilies.** Panel (**A**) contains Rab subfamilies Rab14, 4, 2, panel (**B**) Rab32, 7, 23 and finally panel (**C**) RabL4, 28. Each of the trees covers different taxa. For information on how the trees have been generated check **Materials and Methods** in the main article. All sequence accessions are listed in **Table S2**. All representations have been generated with Dendroscope [1].

Abbreviations: *Homo sapiens* (Hs), *Mus musculus* (Mm), *Monosiga brevicollis* (Mb), *Naegleria Gruberi* (Ng), *Leishmania major* (Lm), *Leishmania braziliensis* (Lb), *Leishmania infantum* (Li), *Trypanosoma brucei* (Tb), *Trypanosoma cruzi* (Tc), *Plasmodium falciparum* (Pf), *Toxoplasma gondii* (Tg), *Tetrahymena thermophila* (Tt), *Paramecium tetraaurelia* (Pt), *Giardia lamblia* (Gl), *Trichomonas vaginalis* (Tv), *Phytophtora infestans* (Pi), *Phytophtora sojae* (Ps), *Micromonas pusilla* (Mp), *Volvox carteri* (Vc)

References

1. Huson DH, Richter DC, Rausch C, Dezulian T, Franz M et al. (2007) Dendroscope: An interactive viewer for large phylogenetic trees. BMC Bioinformatics 8: 460.