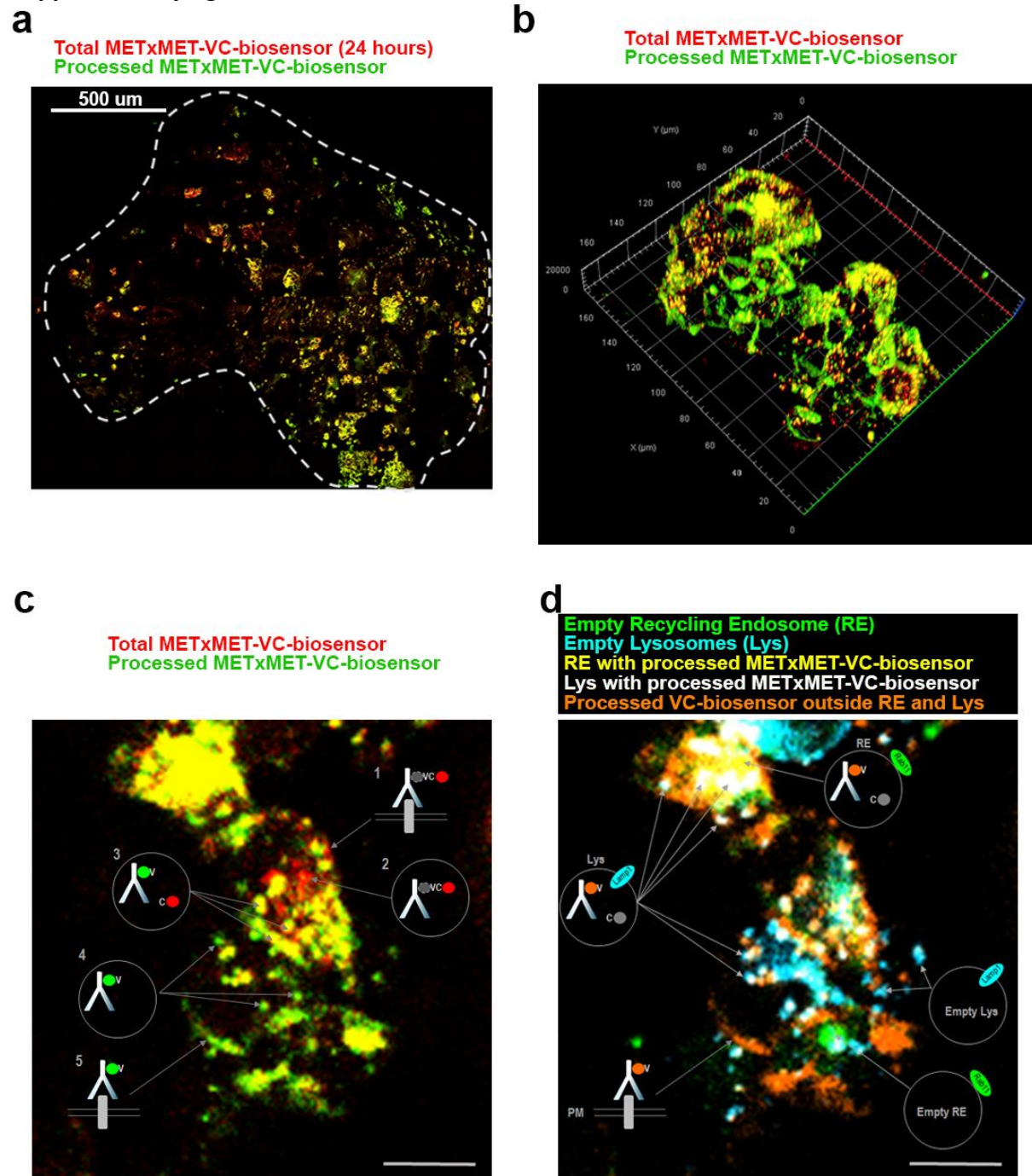


Supplementary fig 3



Supplementary Fig 3. Processed METxMET-VC-biosensor colocalizes with late endosome/lysosomes and recycling endosomes *in vivo*.

(a) Confocal microscopy scan shows good penetration and substantial processing of METxMET-VC-biosensor in EBC1 xenografts 24 hours post-injection. (b) 3D rendered confocal images show that intact (red) and processed (green) METxMET-VC-biosensor localizes to intracellular vesicles

and the periphery of the cell in EBC1 xenografts 24 hours after injection. **(c)** Representative image of two cells suggesting that intact METxMET-VC-biosensor might (1) bind to the plasma membrane, (2) be internalized, (3) rapidly processed, (4) transferred to recycling vesicles and (5) recycled to the plasma membrane in EBC1 xenografts. **(d)** Processed METxMET-VC-biosensor (orange) partially colocalizes with immunofluorescent staining of the late endosome/lysosome marker Lamp1 (blue) and the recycling endosome marker Rab11a (green) in immunofluorescence staining of EBC1 xenografts, 24 hours after injection.