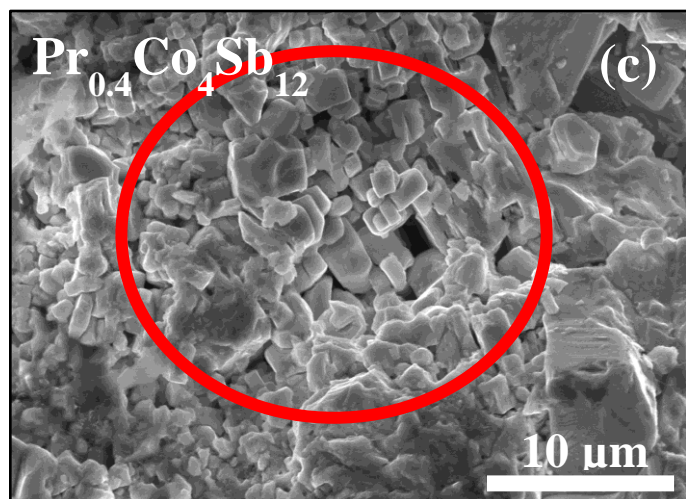
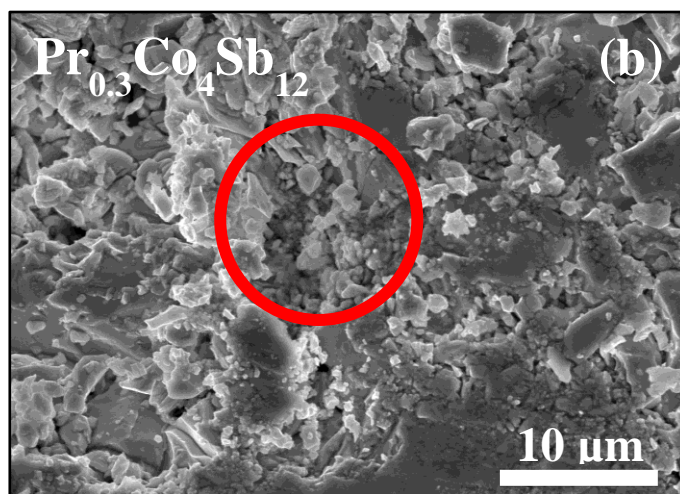
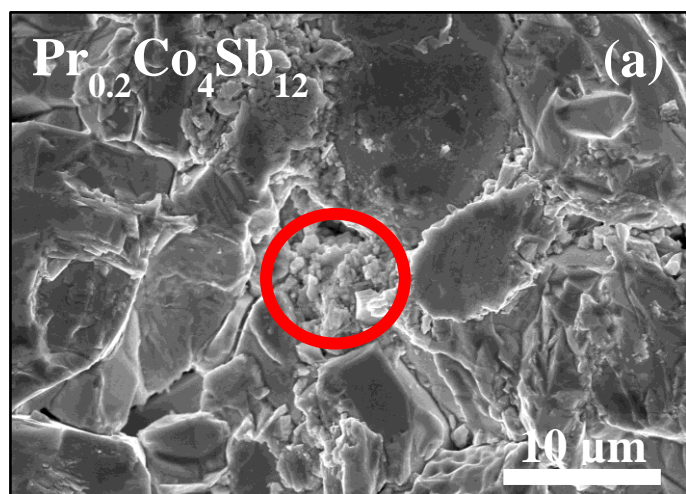
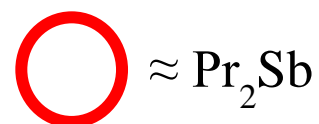


Supplemental Material

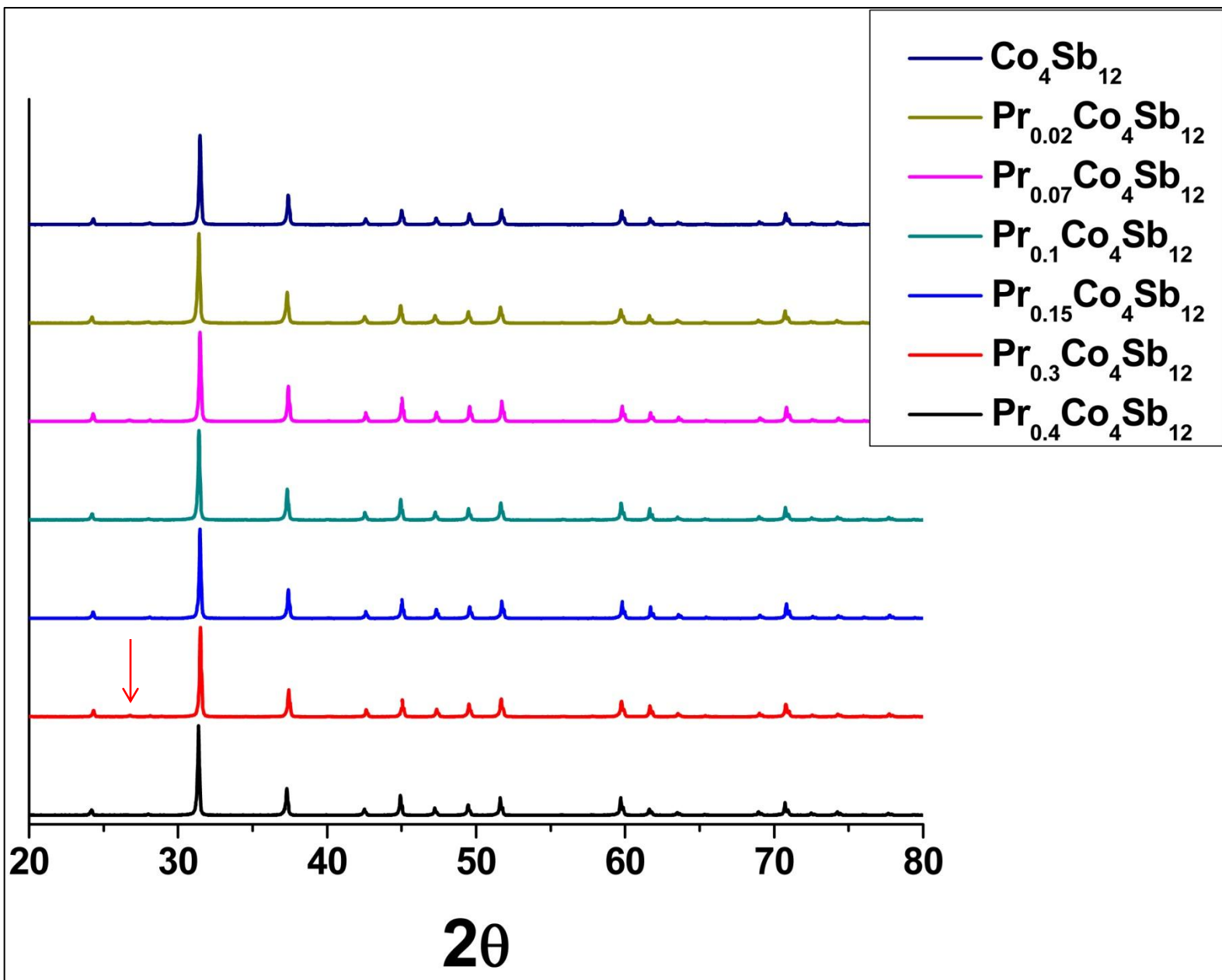


Supplemental Table I.

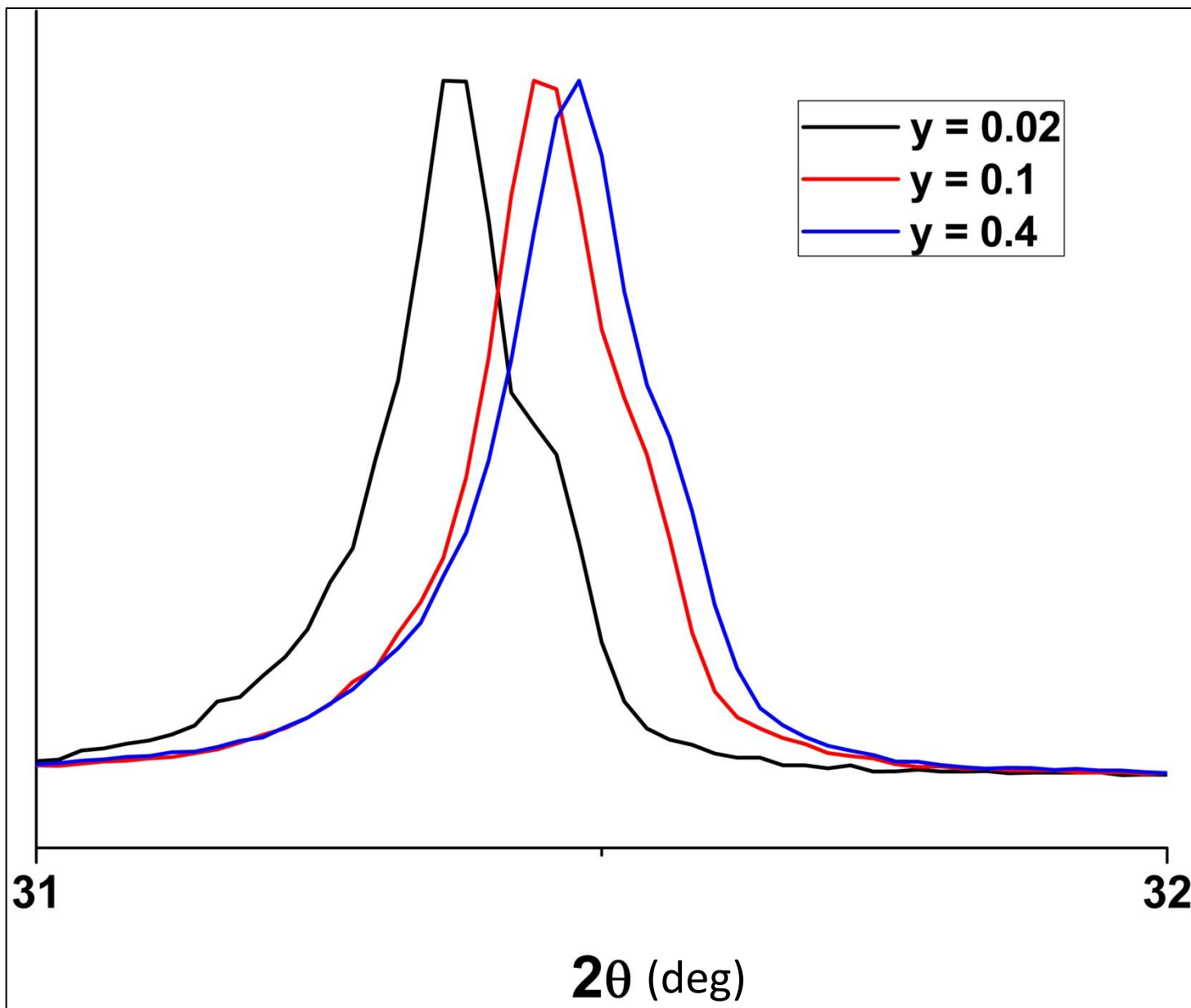
Sample	Pr (at%)	Sb (at%)	Totals
$\text{Pr}_{0.2}\text{Co}_4\text{Sb}_{12}$	68.28	31.72	$\text{Pr}_{2.15}\text{Sb}$
$\text{Pr}_{0.3}\text{Co}_4\text{Sb}_{12}$	69.14	30.86	$\text{Pr}_{2.24}\text{Sb}$
$\text{Pr}_{0.4}\text{Co}_4\text{Sb}_{12}$	69.79	30.21	$\text{Pr}_{2.31}\text{Sb}$



Supp. Fig. 1. SEM images of probable secondary phase Pr_2Sb in samples (a) $\text{Pr}_{0.2}\text{Co}_4\text{Sb}_{12}$ (b) $\text{Pr}_{0.3}\text{Co}_4\text{Sb}_{12}$ and (c) $\text{Pr}_{0.4}\text{Co}_4\text{Sb}_{12}$. Table II at bottom right is atomic percent of Praseodymium and Antimony found in each sample and the total estimated composition of Pr_2Sb found in each SEM image



Supp. Fig. 2. High resolution X-ray diffraction (HRXRD) of all samples $\text{Pr}_y\text{Co}_4\text{Sb}_{12}$ ($0.02 < y < 0.4$) prepared in manuscript. There is little to no secondary phases found in the HRXRD of the samples. All prominent peaks are $\text{Co}_4\text{Sb}_{12}$, except for the arrow pointing out a small presence of secondary phase which is found in all samples.



Supp. Fig. 3. High resolution X-ray diffraction (HRXRD) zoom of largest intensity peak in samples $\text{Pr}_y\text{Co}_4\text{Sb}_{12}$ ($y = 0.02, 0.1, \text{ and } 0.4$) prepared in manuscript. There is a noticeable peak shift to higher 2θ (deg) as more Pr is added to the $\text{Co}_4\text{Sb}_{12}$ skutterudite suggesting a decrease in the lattice parameter.