



**Fig. S1.** A. Diffuse dermal infiltrate of Langerhans cells consisting of large, ovoid cells, with pale pink cytoplasm and indented nuclei (E & E 20X). B. Immunohistochemical stain for B-RAF V600E mutant protein is widely expressed in Langerhans cells (B-RAF V600E 20X). C. Junctional spitzoid naevus consisting of nests of melanocytes with epithelioid morphology at the dermo-epidermal junction (E & E 40X). D. Immunohistochemical stain for B-RAF V600E mutant protein is negative in naevus cells (B-RAF V600E 40X).