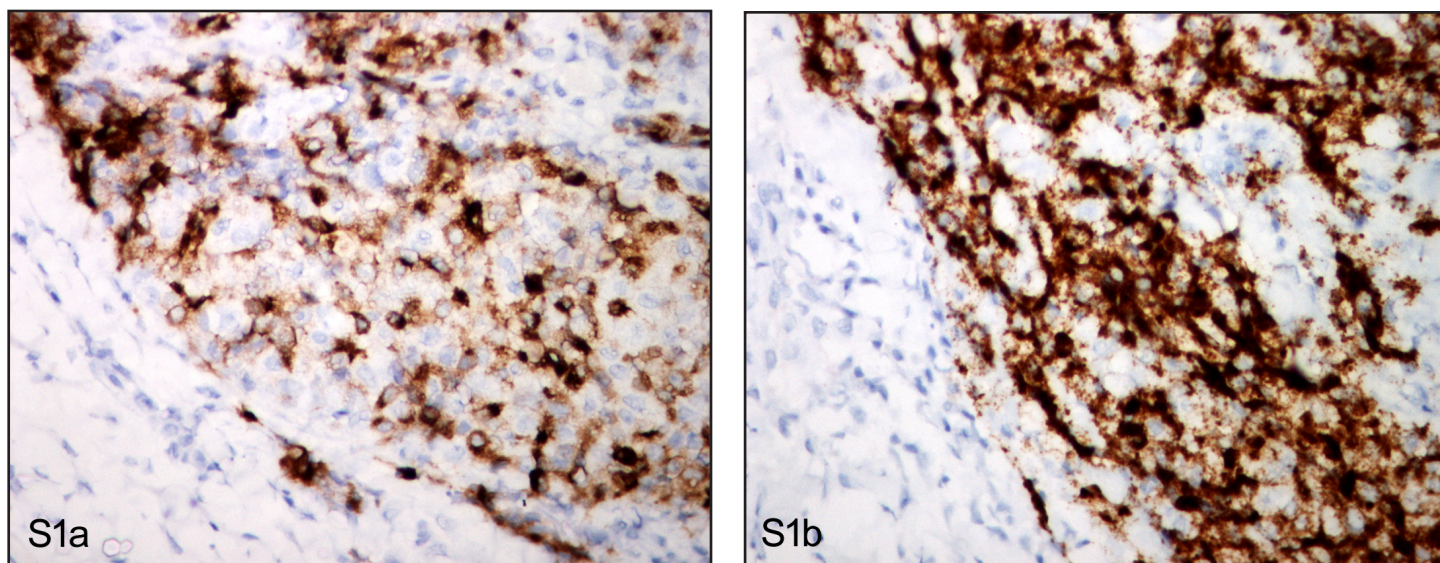
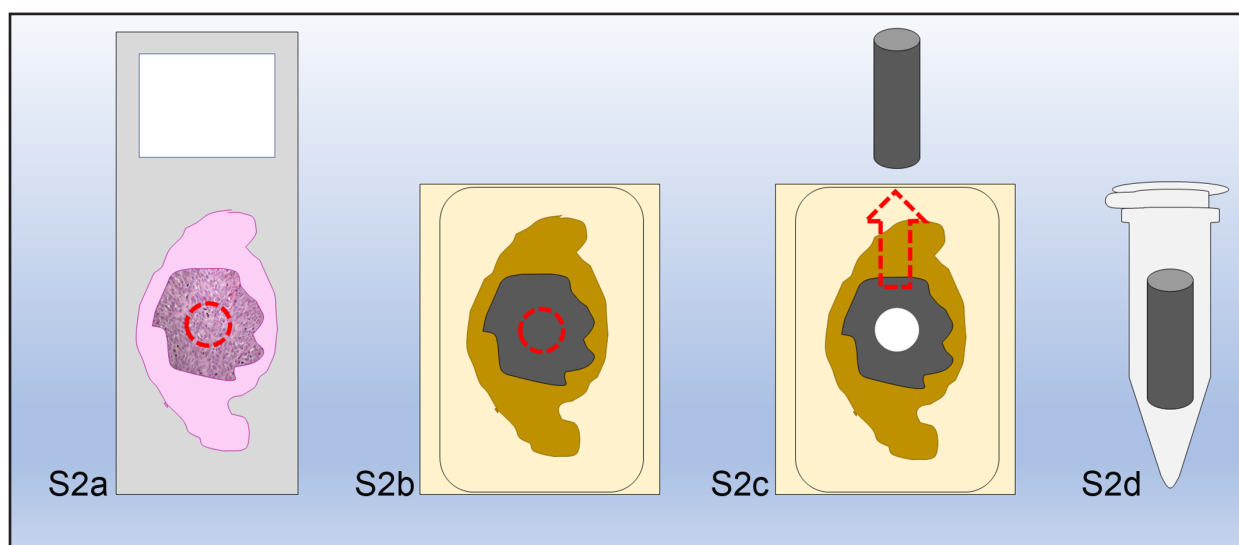


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of canine cutaneous and oral melanoma by RT-qPCR.



Supplemental Figure S1. Melanoma, oral mucosa, dog. Cytoplasmic granular multifocal immunolabeling expression of Melan-A (a) and PNL-2 (b) in neoplastic cells.



Supplemental Figure S2. Tissue sampling from formalin-fixed-paraffin-embedded samples (FFPEs) schematic drawing. The area of interest (red dotted circle) is identified under the microscope (a) and in the corresponding area of the FFPE block (b). A disposable biopsy punch is used to sample the area (c) subsequently submitted for microRNA extraction (d).

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**Supplemental Table 1.** Clinical data of tumor affected and control dogs.

| Case number  | Location    | Age | Breed                       | Site        |
|--------------|-------------|-----|-----------------------------|-------------|
| 1            | oral        | 12  | Poodle                      | gingiva     |
| 2            | oral        | 14  | Cocker Spaniel              | gingiva     |
| 3            | oral        | 12  | Teckel                      | gingiva     |
| 4            | skin        | 7   | Rotweiler                   | axila       |
| 5            | oral        | 13  | Teckel                      | lip         |
| 6            | oral        | 13  | Cocker Spaniel              | gingiva     |
| 7            | skin        | 7   | Mixed Breed                 | thorax      |
| 8            | oral        | NG  | Mixed Breed                 | palate      |
| 9            | skin        | 8   | Boxer                       | scrotum     |
| 10           | skin        | 11  | Giant Schnautzer            | scrotum     |
| 11           | skin        | 5   | West Highland White Terrier | digit       |
| 12           | oral        | 9   | Kerry Blue                  | gingiva     |
| 13           | oral        | NG  | Golden Retriever            | gingiva     |
| 14           | skin        | 13  | Rotweiler                   | digit       |
| 15           | skin        | 9   | Mixed Breed                 | abdomen     |
| 16           | oral        | 8   | British Bull dog            | palate      |
| 17           | skin        | 9   | Scottish Terrier            | limb        |
| 18           | skin        | 7   | Mixed Breed                 | face        |
| 19           | skin        | 6   | Hound                       | ear         |
| Control 1    | skin        | 8   | Mixed Breed                 | abdomen     |
| Control 2    | skin        | 10  | Mixed Breed                 | face        |
| Control 3    | skin        | 4   | Boxer                       | neck        |
| Control 4    | skin        | 6   | Scottish Terrier            | digit       |
| Control 5    | skin        | 3   | Golden Retriever            | forelimb    |
| Control 6    | skin        | NG  | Mixed Breed                 | abdomen     |
| Control 7    | skin        | 7   | Golden Retriever            | thorax      |
| Control 8    | oral mucosa | 7   | Mixed Breed                 | oral mucosa |
| Control 9    | oral mucosa | 10  | boxer                       | oral mucosa |
| Control 10   | oral mucosa | 5   | Mixed Breed                 | oral mucosa |
| Control 11   | oral mucosa | 8   | Weimaraner                  | oral mucosa |
| Control 12   | oral mucosa | 4   | Mixed Breed                 | oral mucosa |
| NG=not given |             |     |                             |             |