



CADET Test for Canine Transitional Cell Carcinoma

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I am excited to share a new and **Accurate** way to diagnose Canine TCC, the CADET **CA**nine **CA**ncer **DE**tection *BRAF* Mutation Detection Assay. This test identifies a single protein substitution in the *BRAF* gene which has been found in 85% of dogs with TCC. Since it evaluates the DNA of transitional epithelial cells in the sample the presence of protein, blood, bacteria, or inflammation will not impact results.

CADET can identify TCC as early as 4 months before clinical signs or a visible mass. My hope is that getting this test into *your hands* will lead to TCC being diagnosed earlier when it is less invasive and more amenable to treatment, improving the outcome for these pets!

CADET can be used as a diagnostic tool when there is clinical suspicion or as an annual screening tool in high risk breeds. Anytime you have a **Scottish terrier, West Highland white terrier, Wire hair fox terrier, Shetland sheepdog, or Beagle** present with signs of urinary tract disease this test would make a great addition to routine diagnostics. These breeds have a **5-20x higher risk of TCC** than mixed breed dogs. Other breeds at higher risk include Miniature Schnauzers, Miniature Poodles, Dobermans, Labradors, Golden Retrievers, and German Shepherds.

CADET has a sensitivity of 85% since 85% of dogs with TCC have this mutation (15% false negative), but is **100% specific for TCC** (No false positive results).

Sentinel Biomedical runs the test on a free catch urine sample and will provide sample cups and submission instructions. See these links for additional information or feel free to call if you have a case in mind! <https://www.sentinelbiomedical.com/vets/>
<http://www.breenlab.org/bladder%20cancer.html>

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