Canine CGE (Cancer Gene Expression) Test

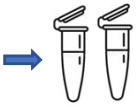
This test can provide the applicability of targeted therapies, including tyrosine kinase inhibitors, by examining the overexpression of cancer-related genes in surgically resected cancer tissues. Quantitative multiplex real-time PCR is performed by isolating RNA from tumor tissues and surrounding non-tumor tissues, and the differences in expression of 12 genes, including tyrosine kinase receptors (RTKs) that activate cell proliferation, are quantitatively analyzed.

Test Process

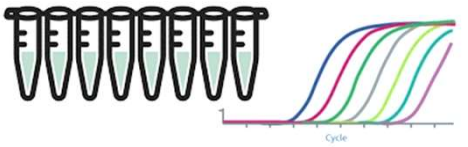
Sample request → **Quantitative multiplex real-time PCR** → **Result report**

Tumor tissue (surgery, biopsy)
Surrounding non-cancer tissue

RNA extraction



Multiplex qPCR for 12 types of genes
- VEGFR, PDGFR, RAF, Kit etc.



Tumor tissue (Tumor: Collected by surgery or biopsy)
Non-tumor tissue (Control: Part of the surrounding tissue where cancer lesions are not visible to the naked eye)

12 types of cancer-related genes : VEGFR1, VEGFR2, PDGFR-α, PDGFR-β, EGFR, ErbB2, BRAF, FGFR1, ALK, c-KIT, Vimentin, vWF

Test results can be used to determine the malignancy of a patient´s tumor and prospective anticancer drugs.
The test results can only be used for clinical purposes.

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