

Flow cytometry is a laser-based technique for evaluation of white blood cell characteristics. It is a fast, efficient and accurate test for the immunophenotyping of neoplastic round cell populations.

Sample Submission

For optimum viability, submit samples within 48 hours of collection. Blood samples sent within 4 days and tissue samples within 72 hours from collection may be acceptable but not optimal due to reduced cell viability. Samples should be refrigerated immediately after collection. DO NOT FREEZE THE SAMPLES. See over for detailed collection and submission requirements.

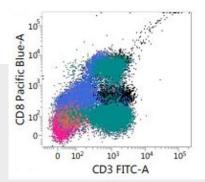
Indications

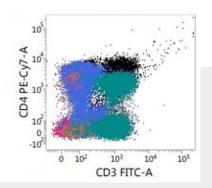
- Leukaemia / atypical cell population in peripheral blood
- Lymphoma (organ, lymph node, body cavity fluid)
- Investigation of a peripheral lymphocytosis

Price List (inc. GST)

- Lymphoma / Lymph Node Panel \$200
- Leukaemia Panel \$270
- CBC \$60
- Cytology \$100 (1 site)

All samples come with pathologist interpretation of results.





AVAILABLE ANTIBODIES*

*For dogs, unless otherwise specified

Panleukocyte CD45

T Lymphocyte CD₃, CD₄, CD₅, CD₈

B Lymphocyte CD21

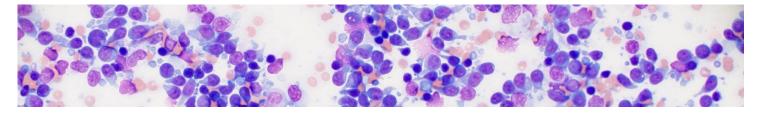
Monocyte CD14

Platelet CD61

Other MHCII, MPO, CD₃₄, cell viability marker

Cats CD4, CD5, CD8, CD21

Clinical Pathology
Gate 1, 250 Princes highway,
Werribee, 3030
Telephone: 03 9731 2273
Email: vet-clinpath@unimelb.edu.au



SAMPLE REQUIREMENTS

Blood samples

All samples for flow cytometry must have current CBC results and clinical pathologist blood film evaluation (within 2 days of flow cytometry submission). Older samples may be suitable.

Please submit a minimum sample volume of 1 mL blood in EDTA. If a concurrent CBC is to be performed, please submit 2 mL of EDTA blood and two fresh blood smears (additional CBC charges will apply).

For leukaemia immunophenotyping, samples with a lymphocytosis and/or circulating atypical cell count > 5 x 10⁹ cells/L are recommended. For lower cell counts, please discuss suitability of the sample with our clinical pathologists.

Samples with cell viability < 70% are not recommended.

Body cavity fluid samples

All samples for flow cytometry must have a body fluid analysis and clinical pathologist evaluation within 24 hours of submission of sample for flow cytometry.

Please submit a minimum sample volume of 1 mL of fluid in EDTA and a minimum of 0.5 mL of fluid in a plain tube (no gel or SST). If a concurrent fluid analysis is to be performed, please submit a further 1 mL of sample in EDTA and two fresh fluid smears (additional fluid cytology charges will apply).

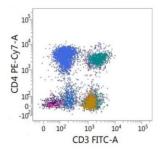
If the fluid sample will not be immediately submitted and the total fluid protein is < 30g/L, please add a few drops of serum from the patient, or another animal of the same species to aid cell preservation.

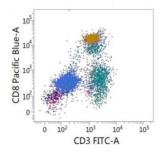
Organ aspirate samples

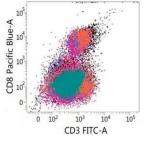
All samples for flow cytometry must have a cytologic evaluation within 24 hours of submission of sample for flow cytometry.

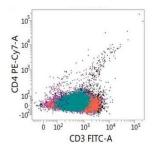
Sample collection instructions:

- Place 1 mL 0.9% saline into a plain tube, pot or edta (no Serum-Z, CAT, SST or gel)
- Add o.1 mL of serum from the patient, or another animal of the same species
- Aspirate the organ (collect from multiple areas with multiple aspiration attempts) and gently expel contents into saline/serum tube
- Rinse residual cells from the syringe by drawing up saline/serum mixture and gently expel back into the tube. Repeat aspiration and rinsing until the saline/serum solution looks slightly turbid
- If sample remains clear, then repeat the organ aspiration and rinsing steps









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