Silent Immune Weakness? Immune Cells Know First

Neutrophils and cytotoxic lymphocytes are vital defenders against infection and diseased cells. Cellytics® Pet Immunity objectively measures a dog's immune health.





Cellytics® Pet Immunity is recommended for those who:

are concerned about weakened immunity due to aging

are undergoing long-term treatment for chronic illness or taking medications

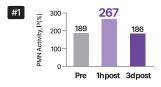
wish to check their dog's health status before illness develops

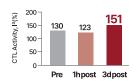
need to monitor immune response during vaccination or surgery

notice fatigue, appetite or coat changes, or a general decline in vitality

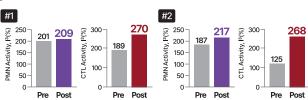
Case Studies Confirming the Effect of Immune Boosters

| PDRN treatment effect





Canine IL-15 treatment effect



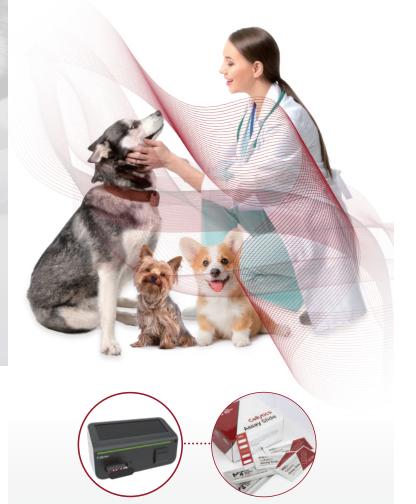


Take a step ahead In immune testing with Cellytics® Pet Immunity





Cellytics® Pet Immunity





Contact & Demo Request

TEL 044-417-6382

EMAIL contact@ metaimmunetech.kr

HOMEPAGE cellytics.net

Why Measure Canine Immunity?

Growing Need for Timely detection **Immunity Testing Better treatment** Immune-boosting **Immunosuppressive** functional feed and therapy immunotherapy Hyperimmunity Immunity level

Environmental

Normal

Weakened

immunity

Stress, Aging Types and Limitations of Current Canine Immunity Test

ELISA(NKP****)

Complexity	Moderate
Analyte	IFN-γ
Method	ELISA
Reliability	Normal
Unmet needs	 Based on IFN- γ levels in whole blood ⇒ lacks high accuracy and reliability. ELISA-based testing ⇒ requires skilled laboratory personnel.

Cellytics® Pet Immunity (C.P.I)

Complexity	Moderate
Analyte	WBC, PMN, CTL
Method	DIH
Reliability	High (single-cell level)

- Measuring neutrophil and cytotoxic lymphocyte activity at the single-cell level
- ⇒ improves accuracy and reliability
- Al-powered analysis
- → eliminates the need for skilled personnel

Total Immune Profiling for Dogs Cellytics® Pet Immunity

■ Blood collection(>1mL)



2 WBC preparation

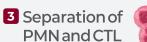














4 Activation of PMN & CTL





5 Sample loading



6 On-device measurement



7 Review test results



Data load to hospital



Test Results Immune Cell Activity [ICA, %] Reference Range (Mean)

PMN

CTL



310



Immune cell activity exceeds the normal range, indicating a risk of overreaction.

Normal 153~309(229)

Normal 167~210(194)

Immune cells are properly activated and functioning.

Low **Below**

Low Below

166

Immune cell activity is low. Immune function needs to be reinforced to resist infection or cancer development.

