CORRELATION OF ANTIBODY TITER AND LEVELS OF INTERLEUKIN-2 IN DOGS VACCINATED WITH RABIES IN MAROS REGENCY

Anicetus Savio Mutu

Abstrak

The aim of this study was to know correlation of IL-2 with titer antibody in dog which vaccination by using serological test with ELISA. Rabies disease is a strategic disease which is important to human, because case fatality rate reaches 100 %. Dog is the main vector of rabies disease in Indonesia. The prevention act through vaccination is effective enough to make the antibody titer protective 0.5 IU/ml. IL-2 is one of the factors in antibody development. The research result shows that there is a significance difference between vaccinated dog and unvaccinated dog with $P=0.02$, which means vaccination creates protective antibody titer and there is a significance difference on IL-2 value between the vaccinated and unvaccinated dog $P=0.027$. However, there is no significance correlation between IL-2 value with antibody titer which is shown by the value of $R=0.123$ and correlation coefficient 0.593

Keyword: Interleukin-2, antibody titer, rabies virus, ELISA.

ix

DAFTAR ISI

Halaman

x

xi

DAFTAR TABEL

xii

xii

DAFTAR GAMBAR

DAFTAR LAMPIRAN

xiv

SINGKATAN DAN ARTI LAMBANG

APC   = *antigen presenting cell*
Ab   = antibodi
CDK   = *cyclin-dependent kinase*
CDC   = Critical disease centre
ELISA   = *Enzym Linked Immunosorbent assay*
IL-2   = Interleukin-2
IU/ml   = Internasional unit/ mili liter
kDa   = kilo Dalton
OD   = Optical density
WHO   = world health organization
Tr   = T-*regulator*
Ts   = T-*supresor*
Tc   = T- sitotoksik
Th   = T-*helper*
μL   = mikroliter
ºC   = derajat celcius
±   = kurang lebih
%   = persen