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| Diagnosis of Canine Visceral Leishmaniasis by ELISA Using K39sub Recombinant Antigen |
| M Taran, M Mohebali, MH Modaresi, S Mamishi, M Mahmoudi, M Mojarad |
| Abstract: |
| Background: Surveillance of the canine reservoir is highly important to help control of visceral leishr therefore imperative to improve and develop new tools reliable, easy to use, and cheap for the di leishmani¬asis. K39 sub recombinant antigen of Leishmania infantum was expressed in prokaryotic for sero-diagnosis of canine visceral leishmaniasis (CVL). Methods: The gene fragment encoding a subunit of the kinesin-related protein k39 (k39sub) was ampli¬fied from DNA of Iranian strain of L (MCAN/IR/96/LON49) and cloned into a pMAL-p2 expres¬sion vector in frame with maltose-bindir |
| The antigenic properties of L. infantum recombinant K39 sub¬unit (39 amino acids) have been te diagnosis of CVL by ELISA. K39sub ELISA for CVL was com¬pared with a standard direct agglutin |
| clinically intected dogs and 71 healthy controls from an-domic props of Ardahil and East Azerbaija |

isceral leishmaniasis in human. It is p for the diagnosis of canine prokaryotic system and evaluated encoding a single 39-amino acid n strain of L. infantum altose-binding protein (MBP) fusion. have been tested for the serological ect agglutination test (DAT) on 55 clinically infected dogs and 71 healthy controls from en-demic areas of Ardabil and East Azerbaijan provinces, north-west of Iran. Results: A sensitivity of 72.7% and specificity of 87.3% were found at a 1:320 cut off titer when DAT confirmed cases were compared with healthy control. A good concordance was found between k39sub ELISA and DAT (k= 81.0). Conclusion: Given the antigenic properties shown by the k39sub, we think this protein carry immunodominant epitopes and are valuable for the sero- diagnosis of L. infantum infection in dogs.

Keywords:

K39antigen , Leishmania infantum , Dogs

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