

CROSS REACTION OF *Paramphistomum cervi* ANTIGEN WITH ANTI-*Fasciola gigantica* SERUM BY USING WESTERN BLOT TECHNIQUE

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ABSTRACT

The purpose of this research to know cross reaction *Paramphistomum cervi* protein with serum-*Fasciola gigantica* by using Western Blot technique. The result can be used as a *Paramphistomiasis* serologic diagnostic. This research was conducted using *Paramphistomum cervi* worm collected from the rumen and reticulum of large ruminant especially cattle and *Fasciola gigantica* worms collected from bile duct and gall bladder of cattle. The worms were crushed and added with Phospate Buffer Saline (PBS) to make homogenates and then centrifuged at a speed 3500 rpm for 15 minutes. Homogenate *Fasciola gigantica* was immunized to mice to obtain serum anti-*Fasciola gigantica* at a dose of 200 µg/mice and *booster* 3 times with a span of two weeks. The homogenates was performed by SDS-PAGE technique to analyze the protein by using Commasie brilliant blue staining. Cross reaction of *Paramphistomum cervi* protein with serum anti-*Fasciola gigantica* using by *Western blot* technique and obtained 11 protein bands are 179, 103, 65, 54, 47, 33, 31, 28, 21, 16, 11 kDa.

Keywords : *Paramphistomum cervi*, *Fasciola gigantica*, Cross reaction, Western Blot.