

**CROSS REACTION OF *Fasciola gigantica* ANTIGEN WITH ANTI-
Moniezia expansa SERUM BY USING WESTERN BLOT TEST**

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ABSTRACT

The purpose of this research is to know cross reaction *Fasciola gigantica* protein with anti-*Moniezia expansa* serum by using *Western blot* test. *Fasciola gigantica* worm was collected from bile duct and gall bladder of cattle and *Moniezia expansa* worm was collected from small intestine of goat. The worms were crushed with mortar, then add 2 ml of *Phospate Buffer Saline* (PBS), after that centrifuge at a speed 3500 rpm for 15 minutes. Homogenate *Moniezia expansa* was immunized to mice to obtain serum anti-*Moniezia expansa* at a dose 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 *Commassie brilliant blue* staining. The result showed the existence of cross-reaction of *Fasciola gigantica* antigen with anti-*Moniezia expansa* serum by using *Western blot* test in a protein with a molecular weight of 54, 45, 35, 30, and 25 kDa.

Key words : *Fasciola gigantica*, *Moniezia expansa*, *Whole Worm Extract*, SDS-PAGE, *Western blot*.