

**CROSS REACTION OF *Trichuris ovis* ANTIGEN WITH ANTI *Moniezia expansa* SERUM BY USING WESTERN BLOT TECHNIQUE**

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**ABSTRACT**

The purpose of this research is to know cross reaction *Trichuris ovis* protein with anti *Moniezia expansa* serum by using Western Blot technique. The result can be used as Trichuriasis serologic diagnostic. This research was conducted using *Trichuris ovis* worm collected from the caecum of small ruminant especially goat and *Moniezia expansa* worms collected from small intestine of goat. The worms were crushed and added with Phospate Buffer Saline (PBS) to make homogenate and then centrifuged at a speed 3500 rpm for 15 minutes. Homogenate *Moniezia expansa* was immunized to mice to obtain serum anti-*Moniezia expansa* 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 *Trichuris ovis* protein with serum anti-*Moniezia expansa* by using Western blot technique and obtained 13 protein bands are 305, 126, 54, 38, 35, 33, 30, 27, 26, 21, 18, 17, 9 kDa.

**Keywords** : *Trichuris ovis*, *Moniezia expansa*, Cross reaction, Western Blot.