

CROSS REACTION BETWEEN *Eurytrema pancreaticum* ANTIGENS and ANTIBODIES on *Fasciola gigantica* USING WESTERN BLOT TECHNIQUE

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ABSTRACT

This research is to conduct to examine the cross reaction between *Eurytrema pancreaticum* antigens and antibodies on *Fasciola gigantica* using Western blot Technique. Adult *Fasciola gigantica* worms collected from liver of cattle and *Eurytrema pancreaticum* collected from pancreas of cattle. Homogenate created from adult *Fasciola gigantica* and *Eurytrema pancreaticum* that crushed using mortar and stamfer and added with Phospate Buffer Saline (PBS). Characterization of protein by SDS-PAGE technique with *Comasie Brilliant Blue* staining. Cross reaction of *Eurytrema pancreaticum* antigens and anti-*Fasciola gigantica* using Western blot Technique with *western blue* staining and IgG anti-mouse and obtained 16 protein bands are 151, 87, 76, 63, 57, 56, 52, 40, 39, 33, 29, 24, 19, 15, 13 and 10 kDa.

Keywords: Cross reaction, *Eurytrema pancreaticum*, *Fasciola gigantica*, Western blot