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(Rattus norvegicus)
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Abstract

Increasing role in male contraception is to achieve better gender equality. Therefore, it is necessary to integrate contraceptive methods for developing alternatives, which until now is very limited because the development of male contraceptive is very low. As a contraceptive method, immunocontraceptive used the principles of immune response induction, with the target of inhibiting receptors binding and ligand that was found in egg and sperm. Male contraceptive methods that had been carried out so far has only 2 types, the use of condom and vasectomy. However, condom effectively prevents pregnancy of only 75-80 percent, while vasectomy will be permanent. So, it is necessary to develop a new contraception that has a long-term efficacy, but reversible as the main cause of azoosperma. This study was to obtain fertilin beta protein polyclonal antibodies from male sperm cell membrane as candidate for immunocontraceptive material, especially for recombinant vaccine development. The method used was explorative-laboratories. The procedures were sperm membrane proteins were isolated with electroelution technique. Then, tests were carried out to the proteins beta fertilin based on pH, temperature and incubation period. Protein isolate resulting from the electroelution was used for confirmation of fertilin beta protein techniques in Western Blot, and immunization of protein isolate beta fertilin to female rabbit, the collection of male beta fertilin polyclonal antibody, and measurements of beta fertilin antibodies titer. The result showed that male beta fertilin protein from cell sperm membrane had a MW as high as 75 kda. The band found in gel electrophoresis SDS-PAGE was beta fertilin molecular band of 75 kda. Immunization of fertilin beta protein isolate from sperm cell membrane of kda 75 to female rabbits also produced fertilin beta polyclonal antibodies.(FMI 2012;48:6-11)

Keyword : the, antibodies, polyclonal, fertilin, beta, immunocontraception, proteins, sperm, membrane,

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