CLAIMS

[Claim 1]

A method for producing a reagent for detection of antibody binding to an antigenic protein; comprising a cationized antigenic protein and beads;

the method comprising the steps of:

solubilizing the antigenic protein by cationization wherein the cationization is performed by the binding of a cationizing agent to thiol groups of the antigenic protein; and

immobiliziallowing the resultant cationized antigenic protein onto ~~to bind to~~ the beads

wherein the cationizing agent is TAPS-sulfonate or TAP-Br.

[Claim 2]

The method according to claim 1, wherein the antigenic protein is a full-length protein.

[Claim 3]

The method according to claim 1 or 2, wherein the antigenic protein is a membrane protein.

[Claim 4]

The method according to any one of claims 1 to 3, wherein the antigenic protein is a cancer antigenic protein.