AUG 12, 2020

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.bjnjkmcn

Protocol Citation: Angel A Justiz-Vaillant 2020. Chicken immunization with KLH-gp120 fragment (254-274) conjugate.. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.bjnjkmcn>

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Protocol status: Working
 We use this protocol and it's working

Created: Aug 12, 2020

Last Modified: Aug 12, 2020

PROTOCOL integer ID:
 40363

🌐 Chicken immunization with KLH-gp120 fragment (254-274) conjugate.

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ABSTRACT

Chicken immunization with peptides is ineffective if only just the peptides are being inoculated. However, to make the immune response effective the fragment 254-274 of HIV-1 was conjugated with a carrier protein (KLH) that produced a critical immune response, assessed by ELISA, Immunoblot analysis and dot blot [1-4]. The Polson method (1990) can be used effectively to separate the IgY antibody from the egg yolk of immunized chickens [5].

References

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5. Polson A (1990) Isolation of IgY from the yolks of eggs by a chloroform polyethylene glycol procedure. Immunol Invest 19: 253-258.

MATERIALS

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⊗ 5 x 2ml No-Waste™ Freund's Incomplete Adjuvant (FIA) **G-Biosciences Catalog #786-099**

⊗ 2ml No-Waste™ Freund's Complete Adjuvant (FCA) **G-Biosciences Catalog #786-709**

⊗ Fragment 254-274 of Gp120 of HIV (peptide) **Contributed by users**

- 1 Two healthy layer chickens (brown Leghorn), aged approximately 6 months, are injected intramuscularly at multiple sites on the breast with the peptide-keyhole limpet hemocyanin (KLH) conjugate.
- 2 The chickens are immunized on day 0, with 0.2 $\mu\text{mol/ml}$ of the fragment 254-274 of HIV gp120-conjugated to KLH (immunogen) in 0.5 ml complete Freund's adjuvant (Sigma-Aldrich Co, St. Louis Missouri).
- 3 On days 15, 60, and 90 chickens are immunized with 0.2 $\mu\text{mol/ml}$ of the immunogen in 0.5 ml incomplete Freund's adjuvant (Sigma-Aldrich Co, St. Louis Missouri).
- 4 The eggs are collected post-immunization. The immunoglobulin Y is separated using the Polson method (1990).