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Immunization with alpha-synuclein peptide

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Connor Monahan¹

¹Columbia University



Connor Monahan

Columbia University

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Protocol status: Working

We use this protocol and it's working

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Abstract

This protocol details immunization of MHC-II(-/-); HLA DRB1*15:01 mice with alpha-synuclein(32-46) peptide in complete Freund's adjuvant.

Attachments



[786-1991.pdf](#)

54KB

Materials

Materials

 BD Difco™ Adjuvants **Fisher Scientific Catalog #DF0638-60-7**

 Pertussis Toxin from B. pertussis Lyophilized (Salt-Free) **List Labs Catalog ##181**

Immunization

- 1 Prepare immunization emulsions:
 - 1.1 Prepare  200 µg of *M. tuberculosis* H37Ra (BD Difco Adjuvant, Fisher Scientific, Cat #DF0638-60-7; Waltham, MA) in 1x PBS or in  100 µg a-syn32-46 peptide (A&A peptides; San Diego, CA) dissolved in 1x PBS.
- 2 Immunize 8- to 12-week-old male and female mice subcutaneously with  50 µL of emulsion into the chest area of the mouse, near the axillary lymph node at both front limbs for a totally of  100 µL of emulsion injected per mouse.
- 3 The day of immunization is designated as day 0.
- 4 At day 14, boost each mouse with the same immunization dose at the same site.
- 5 Administer intravenous injections of  400 ng of *B. pertussis* toxin (List Biological Laboratories, Cat #181; Campbell, CA) at 14- and 16-days post-initial immunization (day 0 and 2 post boost).
- 6 Monitor mice daily for their weight, food and fluid intake and neurological deficits and their weights are recorded daily. Mice are classified as sick if they displayed 12% reduction from 0 DPI weight and/or hunched posture with ruffled and ungroomed fur.