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

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(Immunization with alpha-synuclein peptide

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ABSTRACT

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

ATTACHMENTS

786-1991.pdf

MATERIALS

Materials

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

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

Immunization

1	Prepare	immunization	emulsions:
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- 1.1 Prepare Δ 200 μg of *M. tuberculosis* H37Ra (BD Difco Adjuvant, Fisher Scientific, Cat #DF0638-60-7; Waltham, MA) in 1x PBS or in Δ 100 μg a-syn32-46 peptide (A&A peptides; San Diego, CA) dissolved in 1x PBS.
- **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.
- 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).
- 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.