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ArthritoMab™ Arthritis Inducing Antibody Cocktail

for use in anti-collagen antibody induced arthritis (CAIA)

Catalog Number CIA-MAB-50

For research use only

INTRODUCTION

A cocktail of 4 monoclonal antibodies for the induction of arthritis as an alternative to the widely used collagen-induced arthritis (CIA) model.

REAGENTS PROVIDED

Arthritogenic Monoclonal Antibody cocktail, Concentration 10 mg/mL
Lyophilized LPS from *E.coli* 055:B5, 5mg

MATERIALS NEEDED BUT NOT PROVIDED

Mice DBA/1, Balb/c or any other strains.

- approximately 8 - 10 weeks of age
- approximate weight: 20 g

LPS PREPARATION

- Reconstitute 5 mg LPS with 1 mL of sterile PBS in a sterile hood. This gives a 5 mg/mL solution.
- Vortex briefly and check all the LPS is in solution. Re-vortex if required.
- Transfer the reconstituted LPS to a sterile 10 mL glass container, plastic is not recommended, containing 8 mL of sterile PBS.
- Wash out the LPS vial with 1mL of sterile PBS, adding this to the glass container to give 10 mL of 0.5 mg/mL LPS.
- 200 µL of this solution gives 100 µg of LPS.

DISEASE INDUCTION

Day 0: Administer 2 mg (200 µL) mAb cocktail intravenously (iv). This can vary with mouse strain and laboratory and should be optimized accordingly. Typically, 2-8 mg per animal iv is recommended. Intraperitoneal (ip) administration can also be used.

Day 3: Administer 100 µg (200 µL) LPS ip. This can vary with mouse strain and laboratory and should be optimised accordingly. Typically, 50-100 µg on day 3-6 is recommended.

Observe arthritis score and paw thickness throughout the study. Initial symptoms of arthritis typically appear on Day 2 but will increase in appearance after LPS boost.

STORAGE

Shipped on blue ice packs. (Product may thaw upon arrival without affecting performance)
Store at -20°C and protect from direct light upon arrival.

NOTES

Variations may occur from lab to lab and the protocol may need to be optimized at specific labs or for specific strains used. Items for consideration include the housing environment, water, and feed since exposure to environmental LPS can result in a level of LPS tolerance which may reduce arthritis severity.

REFERENCE

Nandakumar, K.S. & Holmdahl, R. (2005) J Immunol Methods 304:126.

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