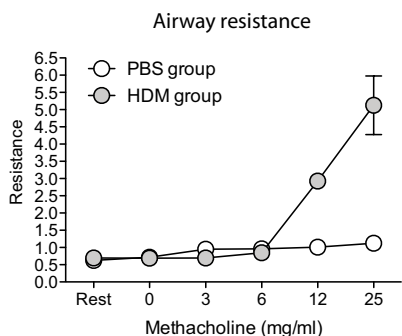
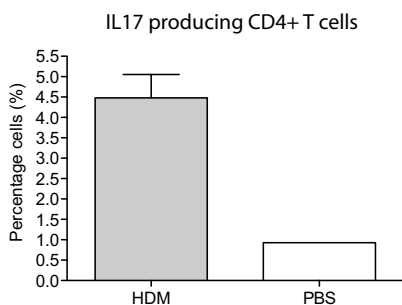
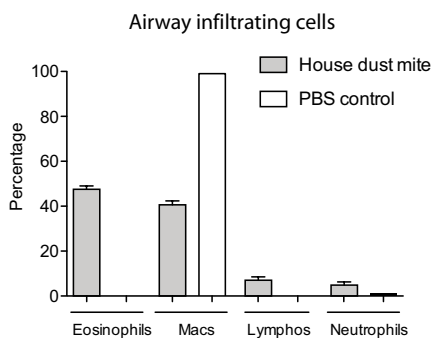


Allergic asthma:



Asthma is one of the most common disorders encountered in clinical medicine today. The incidence, morbidity and mortality of this disease has increased dramatically over the past two decades and continues to do so, particularly in industrialized countries. It is a complex disease of the airways involving swelling of the bronchial tubes, smooth muscle contraction, inflammatory cell infiltration and mucus production which culminate to cause difficulty in exhaling. Allergic asthma is characterized by an increase in airways hyperresponsiveness, the accumulation of granulocytes and Th2 cells producing IL-4, IL-5 and IL-13.

Experimental models and readouts:

- Systemic sensitization models using alum adjuvant
- Adjuvant-free lung sensitization and challenge models
- BALB/c or C57BL/6 mouse strains available
- Histology; disease severity score
- Specific antibody production
- Quantitative PCR of chemokine and cytokine levels in tissue
- Number and effector function of inflammatory cell infiltrates

Duration:

16-30 days dependent upon experimental model and readouts

Our scientific project managers can provide expert advice and guidance for all of your efficacy studies.

Please contact us for customized Service Packages
info@preclinbiosystems.com

Service Package I is available alone, or in combination with Service Packages II and III

Service Package I

- Administration of test compounds
- Initiation of asthma model
- Determination of cellular infiltrate into the airways

Service Package II

- Measurement of airways hyperresponsiveness
- Measurement of specific antibody response

Service Package III

- Histological analysis of lung tissue
- Tissue cytokine and chemokine analysis
- Lymphocyte effector function analysis