



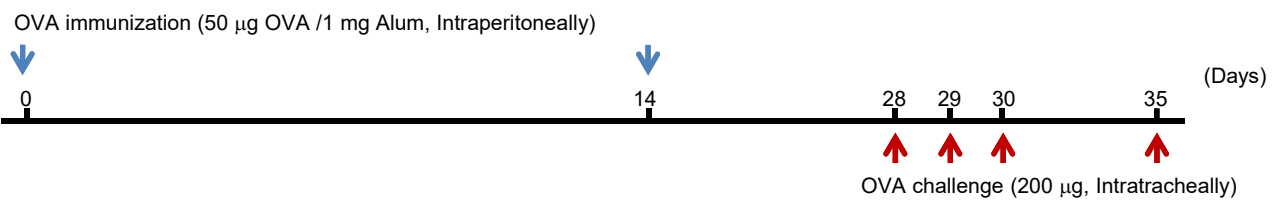
Allergic Diseases: HDM-Induced Asthma



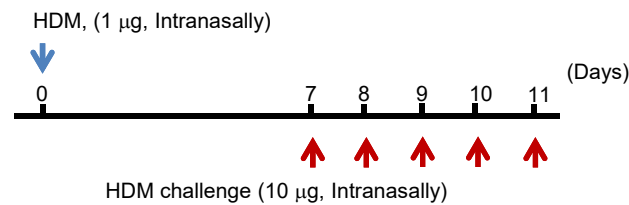
Allergies against house dust mites (HDM), a common aeroallergen, is observed in up to 85% of asthmatic patients worldwide. Moreover, HDM is an immunologically complex antigen and activates both innate and adaptive immune responses (1). As a result, mouse HDM-induced asthma models require no adjuvant and develop asthma in two weeks compared to one month in traditional OVA-induced asthma models (2). To facilitate allergic asthma research, Chondrex, Inc. provides HDM extract as a clinically relevant allergen for the induction of a mouse asthma model that mimics how asthmatic patients are sensitized with aeroallergens.

General Protocols for Induction of Asthma in Balb/c Mice

OVA/Alum-induced Asthma



HDM-induced Asthma



Product	Quantity	Catalog #
House Dust Mite (HDM) Extract from <i>D. pteronyssinus</i>	0.6 mg, lyophilized	3033
Mouse Anti-HDM Antibody Assay Kits (IgG/IgG1/IgG2a/IgG2b/IgG3/IgM/IgE)	1 Kit	3030/3034/3038/3035/3039/3036/3037
HDM (Der p10) Detection Kit	1 Kit	6031
Lipopolysaccharide (LPS) from <i>E. coli</i> O111:B4	0.5 mg/ml x 5 ml	9028

Individual monoclonal antibodies against HDM are also available. Please visit www.chondrex.com for more information.

References

1. L. Gregory, C. Lloyd. Orchestrating house dust mite-associated allergy in the lung. *Trends in Immunology* **32.9**: 402-411 (2011).
2. M. Willart, K. Deswarte, P. Pouliot, H. Braun, R. Beyart, *et al.* Interleukin-1 α controls allergic sensitization to inhaled house dust mite via the epithelial release of GM-CSF and IL-33. *Journal of Experimental Medicine* **209.8**: 1505-1517 (2012).