

Affinity Purified Natural Der p 2

Product Code: NA-DP2-2

Allergen: Natural Der p 2 (*Dermatophagoides pteronyssinus* allergen 2)

Lot No: xxxxxx

Source: *D. pteronyssinus* culture medium

Mol. Wt: 14kD

Purification: From mite culture by affinity chromatography using anti-mite Group 2 monoclonal antibody 7A1.

Concentration: 1.1 mg/ml, based on the Advanced Protein Assay (Cytoskeleton Inc, Denver, CO).

Formulation: Preservative-free and carrier-free in phosphate buffered saline, pH 7.4. Filtered through 0.22 μ filter.

Storage: Store at -20°C

Notes: (1) The preparation shows a major Der p 2 band at 14kD on silver stained SDS-PAGE having purity > 90%.
(2) Not tested for endotoxin.



nDer p 2

For Research Use Only: Not for Diagnostic or Therapeutic Use

References:

1. Heyman PW, Chapman MD, Fox J, Aalberse, RC, PlattsMills, TAE. Antigenic and structural analysis of the Group II allergens (Derp II and Der f II) from house dust mites (*Dermatophagoides* sp). *J Allergy Clin Immunology* 1989;83:1055-67.
2. Mueller GA, Smith AM, Williams DC Jr., Hakkaart GAJ, Aalberse RC, Chapman MD, Rule, GS, Benjamin DC. Expression and secondary structure determination by NMR methods of the major house dust mite allergen Der p 2. *J Biol Chem* 1997;272:26893-8.
3. Smith AM, Benjamin DC, Hozic N, Derewenda U, Smith WA, Thomas WR, Gafvelin G, van Hage-Hamsten M, Chapman MD. The molecular basis of antigenic cross-reactivity between the group 2 mite allergens. *J Allergy Clin Immunol* 2001;107:977-84.
4. Trompette A, Divanovic S, Visintin A, Blanchard C, Hegde RS, Madan R, Thorne PS, Wills-Karp M, Gioannini TL, Weiss JP, Karp CL. Allergenicity resulting from functional mimicry of a Toll-like receptor complex protein. *Nature* 2008, Dec. 7.