

## Certificate of Analysis

|                                    |                                                                                                                                    |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>                    | 1B8 anti Der p 2 hlgE mAb                                                                                                          |
| <b>Product Code:</b>               | E-1B8                                                                                                                              |
| <b>Lot Number:</b>                 | 47795                                                                                                                              |
| <b>Antibody Clone:</b>             | 1B8-IgE                                                                                                                            |
| <b>Origin:</b>                     | Highly purified monoclonal antibody derived from IgE-producing cell lines                                                          |
| <b>Specificity:</b>                | Der p 2 ( <i>Dermatophagoides pteronyssinus</i> allergen)                                                                          |
| <b>Total IgE Concentration:</b>    | 50,000 IU/mL (+/- 20%) based on ImmunoCAP using WHO International Standard Immunoglobulin E (IgE), human serum (NIBSC code 11/234) |
| <b>Quantity:</b>                   | 10,000 IU in 0.2mL (1.0 IU = ~2.4ng IgE)                                                                                           |
| <b>Specific IgE Concentration:</b> | 53,900 IU/mL based on ImmunoCAP using recombinant Der p 2 (product code: D203)                                                     |
| <b>Formulation:</b>                | In phosphate buffered saline, pH 7.4 and 0.05% Tween-20. 0.22µm filtered, preservative free                                        |
| <b>Storage/Handling:</b>           | Maintain at -20°C for up to 12 months. Avoid repeated freeze-thaw cycles. Store product undiluted. No stability data available     |

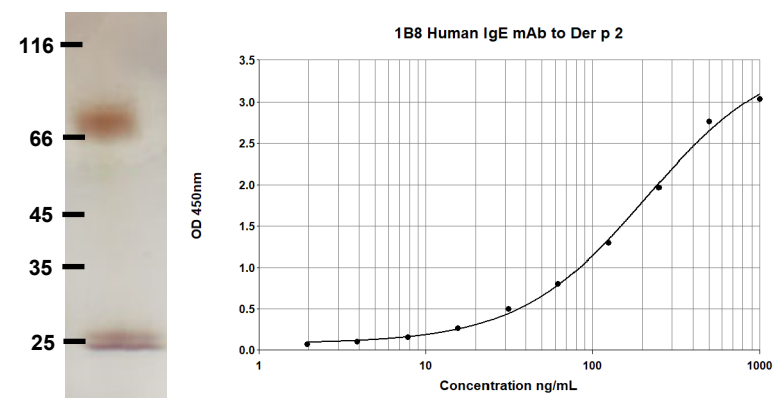
### Applications include:

- QC and validation of purified allergens for molecular diagnostics
- *In vitro* IgE diagnostic tests, calibrators, controls, alternatives to human sera
- Molecular reference standards for IgE
- Epitope analysis and localization of IgE epitopes
- Mast cell/basophil activation assays and histamine release
- Animal models of anaphylaxis

For research or *in vitro* diagnostic use only:  
Not for human *in vivo* or therapeutic use

An InBio® product. Made in the USA

## 1B8 Human IgE mAb to Der p 2 Purity and Titration Curve



### Reference

Khatri K. et. al., Human IgE monoclonal antibody recognition of mite allergen Der p 2 defines structural basis of an epitope for IgE cross-linking and anaphylaxis in vivo, *PNAS Nexus*, 2022; 0:1-0.

Wurth, M.A. et al., Human IgE mAbs define variability in commercial *Aspergillus* extract allergen composition, *JCI Insight*. 2018;3 (20):e123387.

Bazara, M. and Hamburger, R.N., Standardization and stability of immunoglobulin E, *J Allergy Clin Immunol* 1972; 49:189-191. PMID 4622102.

700 Harris Street · Charlottesville, VA 22903 · US · (434) 984 2304 · mail@inbio.com  
Vision Court · Caxton Place · Cardiff, Wales CF238HA · UK · +44 (0) 29 21 674640 · info@inbio.com

www.inbio.com