

## Certificate of Analysis

<b>Product:</b>	38B7 anti Ara h 2 hlgE mAb
<b>Product Code:</b>	E-38B7
<b>Lot Number:</b>	xxxxx
<b>Antibody Clone:</b>	38B7-IgE
<b>Origin:</b>	Monoclonal antibody derived from a patient allergic to peanut.
<b>Specificity:</b>	Ara h 2 ( <i>Arachis hypogaea</i> allergen).
<b>Total IgE Concentration:</b>	50,000 IU/mL (+/- 20%) based on ImmunoCAP using WHO International Standard for Immunoglobulin E (IgE) (NIBSC code 11/234).
<b>Quantity:</b>	10,000 IU in 0.2mL (1.0 IU = ~2.4ng IgE)
<b>Formulation:</b>	In phosphate buffered saline, pH 7.4 and 0.05% Tween-20. 0.22µm filtered, preservative free.
<b>Specific IgE Concentration:</b>	Lot specific concentration (IU/mL) based on ImmunoCAP using recombinant Ara h 2 (product code: F423)
<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.

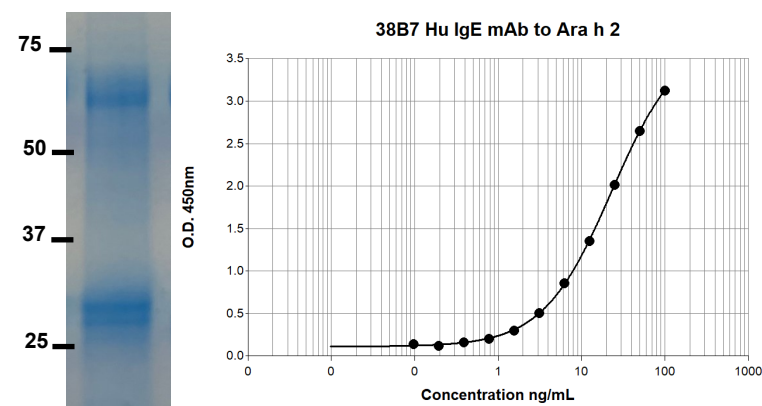
### Applications include:

- 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

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## 38B7 Human IgE mAb to Ara h 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.

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