

Human IgE (non-immune) (azide-free, low endotoxin)
Human monoclonal antibody (non-immune)

Subclass: IgE/k

PRODUCT NO.

DIA HE1-01 / DIA HE1-1

PRESENTATION

Clone: HE1
Production: In vitro hollow fibre production system
Preparation: Protein L purified
Purity: Endotoxin level <25 EU/mg
Content: DIA HE1-01: 150 µL, 1mg/mL
DIA HE1-1: 1 mL, 1mg/mL
Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.15 M NaCl
Storage: For long term storage, -18 to -22°C is recommended, but it may be stored for short term use at 2 to 8°C. The expiry date refers to storage at -18 to -22°C. Repeated freeze/thawing is not recommended.

PREPARATION

This product is purified human IgE with kappa light chains produced in vitro from a monoclonal hybridoma. Original material is obtained from a healthy donor tested negative by US-FDA approved tests against HIV, HCV and Hepatitis B, but must be handled as potentially infectious as all human material.

The purity of the human IgE is > 90%, tested by SDS-PAGE. As the IgE comes from a monoclonal cell line, there is no contamination of antibodies of other isotypes. The human IgE is purified by Protein L chromatography. The remaining contaminants are mainly components from Foetal Bovine Serum.

1 mg of DIA HE1 is 380,000± 50,000 IU/ml using Siemens total IgE Immulite 2000 kit .

APPLICATION

This antibody is well suited as a standard in IgE quantifying assays due to its very low batch-to-batch variation. Other applications include immunochemistry and cellular immunology research.

REFERENCES

Stimulation of cells

Redhu NS, Shan L, Al-Subait D, Ashdown HL, Movassagh H, Lamkhioued B, Gounni AS (2013) IgE induces proliferation in human airway smooth muscle cells: role of MAPK and STAT3 pathways. *Allergy, Asthma & Clinical Immunology*. 9:41

Nunomura S, Shimada S, Kametani Y, Yamada Y, Yoshioka M, Suemizu H, Ozawa M, Itoh T, Kono A, Suzuki R, Tani K, Ando K, Yagita H, Ra C, Habu S, Satake M, Sasaki E (2012) Double expression of CD34 and CD117 on bone marrow progenitors is a hallmark of the development of functional mast cell of Callithrix jacchus (common marmoset). *International Immunology* 24:593–603.

Redhu NS, Saleh A, Shan L, Gerthoffer WT, Kung SK, Halayko AJ, Lamkhioued B, Gounni AS (2009) Proinflammatory and Th2 Cytokines Regulate the High Affinity IgE Receptor (FcεRI) and IgE-Dependant Activation of Human Airway Smooth Muscle Cells. *PLoS ONE* 4:e6153.

More references are available at www.bioporto.com

CONDITIONS

Unless otherwise marked, all products are for research use only. Not for use in diagnostic procedures. Not for use in human therapeutic applications. For in vitro use or further manufacture only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The foregoing is in lieu of all warranties, expressed or implied, including implied warranties of merchantability and fitness for a particular purpose. In no event shall BioPorto Diagnostics A/S be responsible for loss of profits or indirect consequential losses resulting from use of its products.

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