

Human IgE (non-immune), without azide

CAT. NO. DIA HE1

OVERVIEW

Product Name	Human IgE (non-immune), without azide	Conjugation	Unconjugated
Description	Human monoclonal antibody	Host	Human
Isotype	IgE/k	Clone	HE1
Tested Applications	ELISA, WB, IHC, Cell Stimulation Assay		

SPECIFICITY

Specificity	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. 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.		
Immunogen	Non-immune	Gene ID	-
Target	No information		
Species Reactivity POSITIVE	Human	Species Reactivity NEGATIVE	Not determined

PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL \pm 15%, See CoA for lot details		
Purification	The human IgE is purified by Protein L chromatography. The remaining contaminants are mainly components from Foetal Bovine Serum	Purification Notes	Endotoxin level < 25 EU/mg
Storage buffer	0.01 M phosphate buffer, pH 7.4, containing 0.15 M NaCl.		
Storage condition	For long term storage, -18 to -22°C is recommended, but it may be stored for short term use at 2 to 8°C without exposure to light. The expiry date refers to storage at -18 to -22°C.		
Safety	Wear protective clothing. Must be handled as potentially infectious as all human material.		

TESTED APPLICATIONS

ELISA	This antibody is well suited as a standard in IgE quantifying assays due to its very low batch-to-batch variation.
WB	This antibody can be used in Western Blotting.
IHC	This antibody can be used in immunochemistry.
Cell Stimulation Assay	This antibody can be used in cellular immunology research. (1-3)

SCIENTIFIC REFERENCES

Stimulation of human bronchial/tracheal smooth muscle (B/TSM) cells with IgE

1. Redhu NS, Saleh A, Shan L, Gerthoffer WT, Kung SK, Halayko AJ, Lamkhioed 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.

Stimulation of acute myelogenous leukemia (AML) blasts

2. Bruserud R., Gjertsen BT, Ulvestad E (2002) Expression of Fc(epsilon)-receptors by human acute myelogenous leukemia (AML) blasts: studies of high- and low- (CD23) affinity receptor expression and the effects of IgE-mediated receptor ligation on functional AML blast characteristics. Leukemia Res 26:515-21.

Stimulation of neutrophils

CONDITIONS

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3. Saffar AS, Alphonse MP, Shan L, HayGlass KT, Simons FER, Gounni AS (2007) IgE modulates neutrophil survival in asthma: Role of mitochondrial pathway. *J Immunol* 178:2535-2541.

Investigation of *Aspergillus oryzae* involvement in allergic bronchopulmonary aspergillosis (ABPA)

4. Yamaki K and Yoshino S (2011) *Aspergillus oryzae* Lectin Induces Anaphylactoid Oedema and Mast Cell Activation Through its Interaction With Fucose of Mast Cell-Bound Non-specific IgE. *Scandinavian Journal of Immunology* 74:445-453.

Used as a control for IgE in skin graft on mice

5. Fairley JA, Burnett CT, Fu CL, Larson DL, Fleming MG, Giudice GJ (2007) A pathogenic role for IgE in autoimmunity: Bullous pemphigoid IgE reproduces the early phase of lesion development in human skin grafted to nu/nu mice. *J Invest Dermatol* 127:2605-2611.

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