

## Human IgE (non-immune), with azide

CAT. NO. DIA HE1A

### OVERVIEW

<b>Product Name</b>	Human IgE (non-immune), with azide	<b>Conjugation</b>	Unconjugated
<b>Description</b>	Human monoclonal antibody	<b>Host</b>	Human
<b>Isotype</b>	IgE/k	<b>Clone</b>	HE1
<b>Tested Applications</b>	ELISA, WB, IHC, Cell Stimulation Assay		

### SPECIFICITY

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

### PROPERTIES

<b>Form</b>	Liquid	<b>Unit Size</b>	0,4 mL and 1 mL
<b>Concentration</b>	1 mg/mL $\pm$ 15%, See CoA for lot details		
<b>Purification</b>	The human IgE is purified by Protein L chromatography. The remaining contaminants are mainly components from Foetal Bovine Serum	<b>Purification Notes</b>	-
<b>Storage buffer</b>	0.01 M phosphate buffer, pH 7.4, containing 0.15 M NaCl, 0,09% sodium azide		
<b>Storage condition</b>	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.		
<b>Safety</b>	Wear protective clothing. Must be handled as potentially infectious as all human material.		

### TESTED APPLICATIONS

<b>ELISA</b>	This antibody is well suited as a standard in IgE quantifying assays due to its very low batch-to-batch variation.
<b>WB</b>	This antibody can be used in Western Blotting.
<b>IHC</b>	This antibody can be used in immunochemistry.
<b>Cell Stimulation Assay</b>	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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