



Anti-IL4 monoclonal antibody, clone 36E3 (CABT-ZC1185)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rat Monoclonal Antibody to Human IL4 molecule
Antigen Description	<p>IL-4 is a pleiotropic cytokine produced by activated Th2 cells and mast cells, and plays a pivotal role in immune responses. The effects of IL-4 are mediated after binding to high affinity receptor complexes present on hematopoietic as well as non-hematopoietic cells.</p> <p>Hematopoietic cellular responses to IL-4 are mediated by a high affinity receptor complex comprised of the IL4Rα (CD124) subunit and the common cytokine γc chain (CD132). In non-hematopoietic cells, the IL4Rα subunit associates with the IL13Rα chain and also serves as a functional complex for IL-13. IL4Rα is a single-pass type I transmembrane protein containing ser/Pro-rich regions in cytoplasmic domain similar to those present in the IL-2 receptor and GM-CSF receptor γ-chains. As a receptor for both IL4 and IL13, IL4Rα couples to the JAK1/2/3-STAT6 pathway, and is involved in regulating IgE production and, chemokine and mucus production at sites of allergic inflammation, as well as promoting differentiation of Th2 cells.</p> <p>Two transcript variants encoding different isoforms of IL4Rα, a membrane-bound and a soluble form, have been found, and the soluble form of IL4Rα can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells.</p>
Target	IL4
Immunogen	Recombinant human IL-4 expressing CHO cells
Isotype	IgG1
Source/Host	Rat
Species Reactivity	Human
Clone	36E3
Conjugate	Unconjugated

Applications	ELISA, LMNX
Buffer	PBS, pH 7.0 Dilution Buffer
Preservative	0.05% Sodium Azide
Storage	The antibody solution should be stored at the stock concentration at 4°C. Do not freeze.

GENE INFORMATION

Entrez Gene ID	3565
UniProt ID	D4HNR6