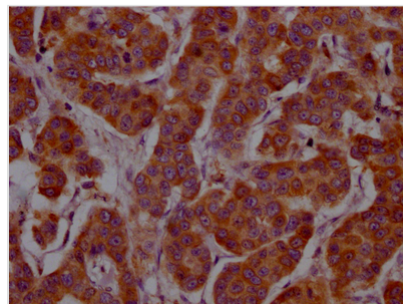




IL4 Antibody

Product Code	CSB-RA240377A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P05112
Immunogen	A synthesized peptide derived from human IL4
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Participates in at least several B-cell activation processes as well as of other cell types (PubMed:3016727). It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Positively regulates IL31RA expression in macrophages (By similarity).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Immunology
Gene Names	IL4
Accession NO.	5D8

Image



IHC image of CSB-RA240377A0HU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

Mast cells, basophils, a subset of activated T cells, eosinophils, and neutrophils



are the main producers of IL-4. It has characteristics that stimulate B cells and promote Th2 responses. IL-4 causes naive CD4 T cells to differentiate into Th2 cells in T cells. IL-4 is responsible for immunoglobulin isotype flipping to IgG1 and IgE and can rescue B cells from death, enhancing their lifespan. IL-4 and IL-13 also cause alternative macrophage activation in macrophages. In vivo, IL-4 is required for B cell IgE release and increases IgG1 synthesis.

The recombinant IL4 antibody was generated in vitro through inserting cloned IL4 genes into expression vectors. The expression vector was then inserted into a mammalian cell to express this IL4 antibody. It has been validated in ELISA, IHC. Every step in the production was controlled strictly. You have no worries about the quality.