



Rabbit Anti-Mouse IL-18 monoclonal antibody, clone S278 (CABT-ZB1055)

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

PRODUCT INFORMATION

Specificity	It reacts with Mouse IL-18 It has no cross-reactivity in ELISA with Human IL1F7, Human IL1F9.
Target	IL18
Immunogen	Recombinant Mouse IL-18 protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse
Clone	S278
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA, ELISA(det) We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB737 - CABT-ZB1055 This antibody will detect IL-18 in antibody pair set. [ABPR-ZB317]
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse IL-18.
Format	Purified, Liquid
Concentration	Lot specific
Size	50 µL, 100 µL, 1 mL

Buffer	PBS
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction

Interleukin-18 (IL-18, also known as interferon-gamma inducing factor) is a proinflammatory cytokine that belongs to the IL-1 superfamily and is produced by macrophages and other cells. This cytokine can induce the IFN-gamma production of T cells. The combination of IL-18 and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production of B cells. IL-18 binding protein (IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity. IL-18 is an IL-1-like cytokine that requires cleavage with caspase-1 to become active, was found to increase IgE production in a CD4+ T cell -, IL-4- and STAT6-dependent fashion. IL-18 and T cell receptor-mediated stimulation could induce naive CD4+ T cells to develop into IL-4-producing cells in vitro. Thus, caspase-1 and IL-18 may be critical in the regulation of IgE production in vivo, providing a potential therapeutic target for allergic disorders. IL-18 production in primary synovial cultures and purified synovial fibroblasts was, in turn, upregulated by TNF- α and IL-1 β , suggesting that monokine expression can feedback to promote Th1 cell development in the synovial membrane. Besides, synergistic combinations of IL-18, IL-12, and IL-15 may be of importance in sustaining both Th1 responses and monokine production in RA.

Keywords IL18BP; interleukin 18 binding protein; IL18BP α ; interleukin-18-binding protein

GENE INFORMATION

Synonyms IL18BP; interleukin 18 binding protein; IL18BP α ; interleukin-18-binding protein; IL-18BP; tadekinig-alfa; MC51L-53L-54L homolog gene product

Entrez Gene ID [10068](#)

UniProt ID [O95998](#)