



Mouse Anti-Human IL18 Monoclonal Antibody, clone 21I5 (CABT-Z752M)

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

PRODUCT INFORMATION

Product Overview	This antibody is paired with CABT-Z751M.
Immunogen	Purified, human cell expressed recombinant human IL-18.
Isotype	IgG2b, κ
Source/Host	Mouse
Species Reactivity	Human
Clone	21I5
Purification	Protein G purified
Conjugate	Unconjugated
Applications	ELISA (Det) We recommend the following antibodies for sandwich ELISA(Capture - Detection): CABT-Z751M - CABT-Z752M
Reconstitution	Double distilled water is recommended to reconstitute the antibody to 1mg/mL.
Format	Lyophilized
Size	500 µg
Buffer	0.01M PBS, pH 7.0.
Preservative	None
Storage	Store at -20°C.

BACKGROUND

Introduction

Interleukin 18 (IL-18) is a 18 kDa cytokine which identified as a costimulatory factor for production of interferon-gamma (IFN-gamma) in response to toxic shock and shares functional similarities with IL-12. IL-18 is synthesized as a precursor 24 kDa molecule without a signal peptide and must be cleaved to produce an active molecule. IL-1 converting enzyme (ICE, Caspase-1) cleaves pro-IL-18 at aspartic acid in the P1 position, producing the mature, bioactive peptide that is readily released from the cells. It is reported that IL-18 is produced from Kupffer cells, activated macrophages, keratinocytes, intestinal epithelial cells, osteoblasts, adrenal cortex cells and murine diencephalon. IFN-gamma is produced by activated T or NK cells and plays critical roles in the defense against microbial pathogens. IFN-gamma activates macrophages, enhances NK activity and B cell maturation, proliferation and Ig secretion, induces MHC class I and II antigens, and inhibits osteoclast activation. IL-18 acts on T helper type-1 (Th1) T cells and in combination with IL-12 strongly induces them to produce IFN-gamma. Pleiotropic effects of IL-18 has also been reported, such as, enhancement production of IFN-gamma and GM-CSF in peripheral blood mononuclear cells, production of Th1 cytokines, IL-2, GM-CSF and IFN-gamma in T cells, enhancement of Fas ligand expression by Th1 cells.

Keywords

lbactadekin;IFN-gamma-inducing factor;IGIF;IGIFIL-1 gamma;IL18;IL-18

GENE INFORMATION

Gene Name

IL18

Entrez Gene ID

[3606](#)

UniProt ID

[Q14116](#)
