



# Rat Anti-Human IL18 Monoclonal Antibody, clone 260-23C (CABT-Z743R)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	This antibody is paired with CABT-L204.
<b>Specificity</b>	This antibody reacts with human IL-18 on Immunoprecipitation.
<b>Immunogen</b>	Human IL-18/IL-1F4
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Human
<b>Clone</b>	260-23C
<b>Purification</b>	Protein A or G purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IP
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	100 µg
<b>Buffer</b>	PBS containing 50% glycerol, pH 7.2. Contains no preservatives.
<b>Preservative</b>	None
<b>Storage</b>	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

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## GENE INFORMATION

### Gene Name

IL18

### Entrez Gene ID

[3606](#)

### UniProt ID

[Q14116](#)

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