Datasheet for ABIN1684708

IL18R1 Protein (C-Term, Extracellular Domain)

1 Publication

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Overview

Quantity:	200 µg
Target:	IL18R1
Protein Characteristics:	C-Term, Extracellular Domain
Origin:	Mouse
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Specificity:	Optimized DNA sequence encoding extracellular domain of Mouse IL-18 receptor including an C terminal IgG1 Fc tag was expressed in HEK293 cells.
Characteristics:	Recombinant mouse IL-18 receptor alpha is a homodimer protein consisting of two 555 amino acid residue subunits, due to glycosylation migrates as an approximately 95kD protein under reducing SDS-PAGE conditions.
Purity:	> 98 %, as determined by SDS-PAGE and HPLC
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/µg(1EU/µg).

Target Details

Target:	IL18R1

Target Details

Alternative Name:	IL18R1 (IL18R1 Products)
Background:	PDGF is synthesized mainly by megakaryocytes. It is stored in the alpha granules of platelets from which it is released after cell activation of platelets. Platelets synthesize a mixture of the three possible isoforms (BB,AB,AA) while fibroblasts stimulated with EGF synthesize AA homodimers. PDGF receptors are expressed in fibroblasts, osteoblasts, chondroblasts, smooth muscle cells, glial cells, and endothelial cells. Two related receptors, are PDGFRalpha (CD140a) or PDGFRbeta (CD140b). In contrast to many other cytokines PDGF is not released into the circulation. PDGF binds to several plasma proteins and also to proteins of the extracellular matrix which facilitates local concentration of the factor. The factor functions as a local autocrine and paracrine growth factor. In the adult organism PDGF is involved in wound healing processes. The aberrant expression of PDGF is observed with vascular proliferative diseases such as atherosclerosis. PDGF regulates the synthesis of its own receptor and also influences the expression of membrane receptors for IL1, EGF, 5-Hydroxytryptamine, LDL, transferrin, and muscarinergic receptor.
UniProt:	Q61098

Application Details

Comment:	Biologically active: Measured by its ability to bind immobilized recombinant human IL-18 at a concentration range of 1-32 ng/mL in a functional ELISA assay.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS solution, pH7.2
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	The lyophilized protein is stable for at least years from date of receipt at -20 °C. Upon reconstitution, this cytokine can be stored in working aliquots at - 8 °C for one month, or at -20 °C for six months, with a carrier protein without detectable loss of activity.
Expiry Date:	12-24 months

Publications

Product cited in:

Hunter, OHagan, Kenyon, Dhanani, Prinsloo, Edkins: "Hsp90 binds directly to fibronectin (FN) and inhibition reduces the extracellular fibronectin matrix in breast cancer cells." in: **PLoS ONE**, Vol. 9, Issue 1, pp. e86842, (2014) (PubMed).

Tsou, Lin, Chang, Lin, Shao, Yu, Liu, Chitra, Sia, Chow: "Heat shock protein 90: role in enterovirus 71 entry and assembly and potential target for therapy." in: **PLoS ONE**, Vol. 8, Issue 10, pp. e77133, (2013) (PubMed).

Prinsloo, Kramer, Edkins, Blatch: "STAT3 interacts directly with Hsp90." in: **IUBMB life**, Vol. 64, Issue 3, pp. 266-73, (2012) (PubMed).