

Recombinant human IL18BP $\alpha$ 

Catalog No: #AG0014

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## Description

Product Name	Recombinant human IL18BP $\alpha$
Host Species	HEK293
Purification	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC
Immunogen Description	Thr29-Gly192
Target Name	IL18BP $\alpha$
Other Names	IL18 BPa; IL-18 BPa; IL18BP; IL-18BP; IL18BP $\alpha$ ; interleukin 18 binding protein; interleukin-18-binding protein; MC51L-53L-54L homolog gene product; tadekinig-alfa
Accession No.	Uniprot:O95998Gene ID:10068
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GeneID	10068
Target Species	human
Calculated MW	17.6 Kda
Tag Info	additional amino acid free
Formulation	0.22 $\mu$ m filtered solution of PBS, pH 7.4.
Storage	Aliquot and store at -80°C. Avoid repeated freeze/thaw cycles.

## Background

Interleukin 18 binding protein (IL-18BP) is a secreted glycoprotein, which functions as an IL-18 antagonist by binding to IL-18 and blocking its biological activity. IL-18BP bears no amino acid sequence homology to the membrane-associated IL-18 and IL-1 receptor proteins. The gene for human IL-18BP has been localized to chromosome 11q13. It encodes for at least four isoforms by alternative splicing. The IL-18BP isoforms a and c each contain one immunoglobulin (Ig)-like C2-type domain while isoforms b and d lack a complete Ig domain. The complete Ig domain has been shown to be essential to the binding and neutralizing properties of the binding proteins. Two isoforms of mouse IL-18BP (c and d) containing the complete Ig domain have also been isolated and shown to neutralize IL-18 bioactivity. Human and mouse IL-18BPs share approximately 61% amino acid sequence identity. Several poxviruses also encode proteins with sequence similarity to the human and mouse IL-18BP. Viral IL-18BPs have been shown to bind and inhibit IL-18 responses and may be involved in modulating host immune responses. The expression of IL-18BP is markedly up-regulated by IFN- $\gamma$ , suggesting that IL-18 activity is modulated by a negative feedback mechanism mediated by IL-18BP.

Note: This product is for in vitro research use only