

Mouse IL-18 BPd Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF122

DESCRIPTION

Species Reactivity	Mouse		
Specificity	Detects mouse IL-18 BPd in direct ELISAs and Western blots. In Western blots, approximately 25% cross-reactivity with recombinant mous IL-18 BPc is observed and less than 2% cross-reactivity with recombinant human IL-18 BPa is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-18 BPd Thr27-Ala191 Accession # AAD17194		
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.		

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Mouse IL-18 BPd Fc Chimera (Catalog # 122-BP)
Neutralization	3	ity to neutralize IL-18 BPd inhibition of IL-18/IL-1F4-induced IFN-γ secretion in activated Neutralization Dose (ND ₅₀) is typically 10-30 μg/mL in the presence of 2 μg/mL Recombinant
	Mouse IL-18 BPd Fc IL-12.	Chimera, 0.5 ng/mL Recombinant Mouse IL-18/IL-1F4, and 0.1 ng/mL Recombinant Mouse



Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. 	





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BACKGROUND

Interleukin 18 binding protein (IL-18 BP) is a secreted glycoprotein, which functions as an IL-18 antagonist by binding to IL-18 and blocking its biological activity. IL-18 BP bears no amino acid sequence homology to the membrane-associated IL-18 and IL-1 receptor proteins. The gene for human IL-18 BP has been localized to chromosome 11q13. It encodes for at least four isoforms by alternative splicing. The IL-18 BP isoforms a and c each contain one immunoglobulin (Ig)-like C24ype 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 IL18 BP (c and d) containing the complete Ig domain have also been isolated and shown to neutralize IL-18 bioactivity. Human and mouse IL-18 BPs share approximately 61% amino acid sequence identity. Several poxviruses also encode proteins with sequence similarity to the human and mouse IL-18 BP. Viral IL-18 BPs have been shown to bind and inhibit IL-18 responses and may be involved in modulating host immune responses. The expression of IL-18 BP is markedly up-regulated by IR-Ŷ, suggesting that IL-18 activity is modulated by a negative feedback mechanism mediated by IL-18 BP.

References:

- 1. Muh, H. et al. (2000) Biochem. Biophys. Res. Commun. 267:960.
- 2. Kim, S-H. et al. (2000) Proc. Nat. Acad. Sci. USA 97:1190.
- 3. Calderara, S. et al. (2001) Virology 279:22.

