

Mouse IL-18 BPd Antibody

Recombinant Monoclonal Rat IgG_{2A} Clone # 139046R Catalog Number: MAB122

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse IL-18BPd in direct ELISAs.
Source	Recombinant Monoclonal Rat IgG _{2A} Clone # 139046R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-18 BPd Thr27-Ala191 Accession # AAD17194
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

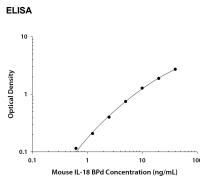
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

ELISA

This antibody functions as an ELISA capture antibody when paired with Goat Anti-Mouse IL-18 BPd Antigen Affinity-purified Polyclonal Antibody (Catalog # AF122).

This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Mouse IL-18 BPd DuoSet ELISA Kit (Catalog # DY122-05) for convenient development of a sandwich ELISA.





Mouse IL-18 BPd ELISA Standard Curve. Recombinant Mouse IL-18 BPd protein was serially diluted 2-fold and captured by Rat Anti-Mouse IL-18 BPd Monoclonal Antibody (Catalog # MAB122) coated on a Clear Polystyrene Microplate (Catalog # DY990). Goat Anti-Mouse IL-18 BPd Antigen Affinity-purified Polyclonal Antibody (Catalog # AF122) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

PREPARATION AND STORAGE

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

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 opening.
 - 6 months, -20 to -70 °C under sterile conditions after opening

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 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-18 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 IFN-γ, 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.

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