

Product Datasheet

IL-18/IL-1F4 Antibody AF521-SP

Unit Size: 25 ug

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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AF521-SP

IL-18/IL-1F4 Antibody

Product Information	
Unit Size	25 ug
Concentration	LYOPH mg/ml
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.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute at 0.2 mg/mL in sterile PBS.
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. *Small pack size (SP) is supplied as a 0.2 µm filtered solution in PBS.

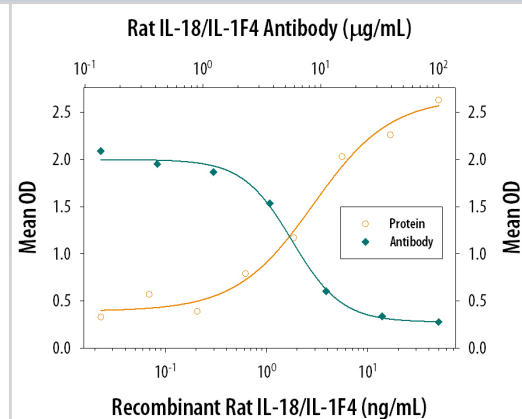
Product Description	
Host	Goat
Gene ID	3606
Gene Symbol	IL18
Species	Rat
Specificity/Sensitivity	Detects rat IL \square 18/IL-1F4 in direct ELISAs and Western blots. In Western blots, approximately 35% cross-reactivity with recombinant mouse IL \square 18 is observed and approximately 10% cross-reactivity with recombinant human IL \square 18 is observed.
Immunogen	<i>E. coli</i> -derived recombinant rat IL \square 18/IL-1F4 His37-Ser194 Accession # P97636
Notes	This product is produced by and ships from R&D Systems, Inc., a Bio-Techne brand.
Endotoxin Note	<0.10 EU per 1 µg of the antibody by the LAL method.

Product Application Details	
Applications	Western Blot, Neutralization
Recommended Dilutions	Western Blot 0.1 ug/mL, Neutralization 1-3 ug/mL



Images

In the presence of Recombinant Mouse IL-12 (0.1 ng/mL, Catalog # [419-ML](#)), Recombinant Rat IL-18/IL-1F4 (Catalog # [521-RL](#)) stimulates IFN- γ secretion in activated mouse T cells in a dose-dependent manner (orange line), as measured by the Mouse IFN- γ Quantikine ELISA Kit (Catalog # [MIF00](#)). Under these conditions, IFN- γ secretion elicited by Recombinant Rat IL-18/IL-1F4 (15 ng/mL) is neutralized (green line) by increasing concentrations of Rat IL-18/IL-1F4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF521). The ND50 is typically 1-3 μ g/mL.



Publications

Miyoshi K, Obata K, Kondo T, Okamura H, Noguchi K Interleukin-18-mediated microglia/astrocyte interaction in the spinal cord enhances neuropathic pain processing after nerve injury. *J. Neurosci.*, 2008;28(48):12775-87. 2008 [PMID: 19036970] (In vivo, , Rat)

Haas CS, Amin MA, Allen BB, Ruth JH, Haines GK, Woods JM, Koch AE Inhibition of angiogenesis by interleukin-4 gene therapy in rat adjuvant-induced arthritis. *Arthritis Rheum.*, 2006;54(8):2402-14. 2006 [PMID: 16869003] (Neut, , Rat)

Felderhoff-Mueser U, Sifringer M, Polley O, Dzierko M, Leineweber B, Mahler L, Baier M, Bittigau P, Obladen M, Ikonomidou C, Buhner C Caspase-1-processed interleukins in hyperoxia-induced cell death in the developing brain. *Ann. Neurol.*, 2005;57(1):50-9. 2005 [PMID: 15622543] (WB, , Rat)

Jordan JA, Guo RF, Yun EC, Sarma V, Warner RL, Crouch LD, Senaldi G, Ulich TR, Ward PA Role of IL-18 in acute lung inflammation. *J. Immunol.*, 2001;167(12):7060-8. 2001 [PMID: 11739527] (ELISA Development, , Rat)



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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