

Product Datasheet

IL-6 Antibody (MP5-20F3) [Unconjugated] MAB406

Unit Size: 501 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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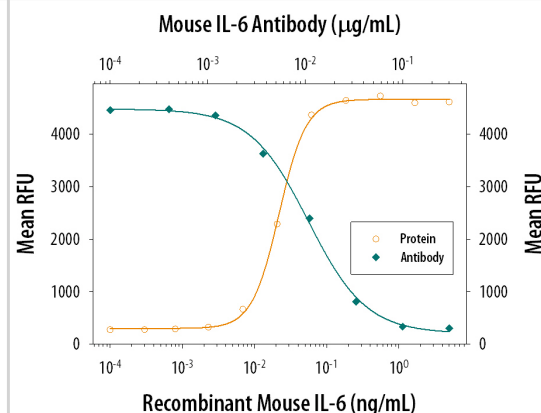
MAB406**IL-6 Antibody (MP5-20F3) [Unconjugated]**

Product Information	
Unit Size	501 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
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	Monoclonal
Clone	MP5-20F3
Preservative	No Preservative
Reconstitution Instructions	Reconstitute at 0.5 mg/mL in sterile PBS.
Isotype	IgG1
Conjugate	Unconjugated
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	Rat
Gene ID	3569
Gene Symbol	IL6
Species	Mouse
Specificity/Sensitivity	Detects mouse IL-6 in ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) IL-6, recombinant porcine IL-6, recombinant rat IL-6, rhIL-11, rhCT-1, or rhCLC is observed.
Immunogen	COS-7 African green monkey SV40 transformed kidney fibroblast-like cell line-derived recombinant mouse IL-6
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 1 ug/mL, Neutralization 0.005-0.025 ug/mL, ELISA Capture (Matched Antibody Pair) 2-8 ug/mL
Application Notes	ELISA Detection: Mouse IL-6 Biotinylated Antibody (Catalog number BAF406) Standard: Recombinant Mouse IL-6 (Catalog number 406-ML)

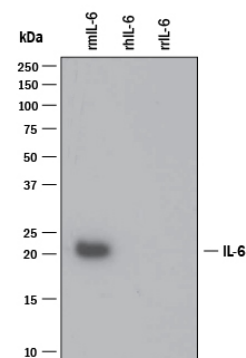


Images

Recombinant Mouse IL-6 (Catalog # [406-ML](#)) stimulates proliferation in the T1165.85.2.1 mouse plasmacytoma cell line in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Mouse IL-6 (0.25 ng/mL) is neutralized (green line) by increasing concentrations of Mouse IL-6 Monoclonal Antibody (Catalog # MAB406). The ND50 is typically 0.005-0.025 $\mu\text{g/mL}$.



Western blot shows 25 ng of Recombinant Mouse IL-6 (Catalog # [406-ML](#)), Recombinant Human IL-6 (Catalog # [206-IL](#)) and Recombinant Rat IL-6 (Catalog # [506-RL](#)). PVDF Membrane was probed with 1 $\mu\text{g/mL}$ of Rat Anti-Mouse IL-6 Monoclonal Antibody (Catalog # MAB406) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # [HAF007](#)). A specific band was detected for IL-6 at approximately 18 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 3](#).



Publications

Z Pang, RD Junkins, AJ MacNeil, C McCormick, Z Cheng, WM Chen, TJ Lin The calcineurin-NFAT axis contributes to host defense during *Pseudomonas aeruginosa* lung infection J. Leukoc. Biol., 2017;0(0):. 2017 [PMID: 29018150] (ELISA Capture, , Mouse)

MS Caetano, H Zhang, AM Cumpian, L Gong, N Unver, EJ Ostrin, S Daliri, SH Chang, CE Ochoa, S Hanash, C Behrens, II Wistuba, C Sternberg, H Kadara, CG Ferreira, SS Watowich, SJ Moghaddam IL6 Blockade Reprograms the Lung Tumor Microenvironment to Limit the Development and Progression of K-ras-Mutant Lung Cancer Cancer Res., 2016;76(11):3189-99. 2016 [PMID: 27197187] (Neut, , Mouse)

R Lv, J Zhao, M Lei, D Xiao, Y Yu, J Xie IL-33 Attenuates Sepsis by Inhibiting IL-17 Receptor Signaling through Upregulation of SOCS3 Cell. Physiol. Biochem., 2017;42(5):1961-1972. 2017 [PMID: 28793286] (ELISA Capture, , Mouse)

SI Ohkura, S Usui, SI Takashima, N Takuwa, K Yoshioka, Y Okamoto, Y Inagaki, N Sugimoto, T Kitano, M Takamura, T Wada, S Kaneko, Y Takuwa Augmented sphingosine 1 phosphate receptor-1 signaling in cardiac fibroblasts induces cardiac hypertrophy and fibrosis through angiotensin II and interleukin-6 PLoS ONE, 2017;12(8):e0182329. 2017 [PMID: 28771545] (Neutralization, , Mouse)

L Zhang, Z Tian, W Li, X Wang, Z Man, S Sun Inhibitory effect of quercetin on titanium particle-induced endoplasmic reticulum stress (ERS)-related apoptosis and in vivo osteolysis Biosci. Rep., 2017;0(0):. 2017 [PMID: 28760844] (ELISA Capture, , Mouse)

TS Zaman, H Arimochi, S Maruyama, C Ishifune, SI Tsukumo, A Kitamura, K Yasutomo Notch Balances Th17 and Induced Regulatory T Cell Functions in Dendritic Cells by Regulating Aldh1a2 Expression J. Immunol., 2017;0(0):. 2017 [PMID: 28779023] (Bioassay, Mouse)

Junkins R, MacNeil A, Wu Z, McCormick C, Lin T Regulator of calcineurin 1 suppresses inflammation during respiratory tract infections. J Immunol, 2013;190(10):5178-86. 2013 [PMID: 23589609] (ELISA Capture, , Mouse)

Kim M, Gorouhi F, Ramirez S, Granick J, Byrne B, Soulika A, Simon S, Isseroff R Catecholamine stress alters neutrophil trafficking and impairs wound healing by beta2-adrenergic receptor-mediated upregulation of IL-6. J Invest Dermatol, 2014;134(3):809-17. 2014 [PMID: 24121404] (In vivo, , Mouse)

Kai , Toshihir, Yamazaki , Tomoko, Arai , Satoko, Miyazaki , Toru Stabilization and augmentation of circulating AIM in mice by synthesized IgM-Fc. PLoS ONE, 2014;9(5):e97037. 2014 [PMID: 24804991] (IHC OCT-embedded, , Mouse)

Jung-Yeon Lim Enhanced immunoregulation of mesenchymal stem cells by IL-10-producing type 1 regulatory T cells in collagen-induced arthritis Sci Rep, 2016;6(0):26851. 2016 [PMID: 27246365] (ELISA Capture, , Mouse)

The human amniotic fluid stem cell secretome effectively counteracts doxorubicin-induced cardiotoxicity Sci Rep, 2016;6(0):29994. 2016 [PMID: 27444332] (Neut, , Mouse)

Zhao Y, Xiao X, Frank S, Lin H, Xia Y Distinct mechanisms of induction of hepatic growth hormone resistance by endogenous IL-6, TNF-alpha, and IL-1beta. Am J Physiol Endocrinol Metab, 2014;307(2):E186-98. 2014 [PMID: 24895283] (In vivo, , Mouse)

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