

## **Product Data Sheet**

## **LEAF™ Purified anti-mouse IL-6**

Catalog # / Size: 504505 / 50 µg

504506 / 500 µg

Clone: MP5-20F3 **Isotype:** Rat lgG1,  $\kappa$ 

Immunogen: COS-7-expressed, recombinant mouse IL-6

Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity

chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no

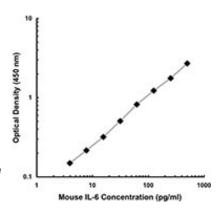
preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the

protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution

contains no preservative; handle under aseptic conditions.



## **Applications:**

Applications: ELISA Capture - Quality tested ELISPOT Capture, Neut, IHC - Reported in the literature

CyTOF® - Validated

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA applications, a concentration range of 1-4 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of mouse IL-6 recombinant protein ranging from 1000 to 8 pg/ml are recommended for each ELISA plate. For ELISPOT applications, a concentration range of 4-8 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: ELISA Capture<sup>1-3,11</sup> or ELISPOT Capture<sup>4,5</sup>: The purified MP5-20F3 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated MP5-32C11 antibody (Cat. No. 504602) as the detecting antibody and recombinant mouse IL-6 (Cat. No. 563401) as the standard. The LEAF™ purified antibody is suggested for ELISPOT capture.

Flow Cytometry: The fluorochrome-labeled MP5-20F3 antibody is useful for intracellular immunofluorescent staining

and flow cytometry: The fluorochrome-labeled MP5-20F3 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-6 -producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section.

Neutralization<sup>1-2,8-10</sup>: The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for neutralization of mouse IL-6 bioactivity *in vivo* and *in vitro* (Cat. No. 504506). Additional reported applications (for relevant formats of this clone) include: *In Vivo* Capture<sup>7</sup>, and immunohistochemical staining (paraformaldehyde-fixed/saponin-treated<sup>6</sup>, and acetone-fixed frozen tissue sections<sup>13, 14</sup>). Note: For testing mouse IĽ-6 in serum, plasma or supernatant, BioLegend's ELISA Max™ Sets (Cat. No. 431301 to 431306) are specially developed and recommended.

**Application References:** 

- 1. Abrams J, et al. 1992. Immunol. Rev. 127:5. (ELISA Capture, Neut)
- 2. Sander B, et al. 1993. J. Immunol. Meth. 166:201. (ELISA Capture, Neut)
- 3. Abrams J, 1995. Curr. Prot. Immunol. John Wiley and Sons, New York. Unit 6.20. (ELISA Capture)

4. Fujihashi K, et al. 1991. J. Immunol. Meth. 160:181. (ELISPOT Capture)

5. Klinman D, et al. 1994. Curr. Prot. Immunol. John Wiley and Sons, New York. Unit 6.19. (ELISPOT Capture)

6. Litton M, et al. 1994. J. Immunol Meth. 175:47. (IHC)

- 7. Finkelman F, et al. 2003. Curr. Prot. Immunol. John Wiley & Sons, New York. Unit 6.28. (In Vivo Capture) 8. Starnes HF Jr, et al. 1990. J. Immunol. 145:4185. (Neut)
- 9. Riedemann NC, et al. 2003. J. Immunol. 170:503. (Neut)
- 10. Rochman I, et al. 2005. J. Immunol. 174:4761. (Neut) 11. O'Connell PJ, et al. 2006. Blood 107:1010. (ELISA Capture)
- 12. Ozeki Y, et al. 2010. Int. Immunol. 22:179. PubMed
- 13. Galie M, et al. 2005. Carcinogenesis 26:1868 (IHC)

14. Schone MP, et al. 2000. J Immunol 165:6583 (IHC)

Description: IL-6 is a potent lymphoid cell growth factor that stimulates the growth and survivability of certain B cells and T cells.

IL-6 plays a role in host defense, acute phase reactions, immune responses, and hematopoiesis. IL-6 is expressed by

T cells, B cells, monocytes, fibroblasts, hepatocytes, endothelial cells and keratinocytes.

Antigen References: 1. Fitzgerald K, et al. Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.

2. Hirano T. 1998. Intl. Rev. Immunol. 16:249.



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Patterson P. 1992. Curr. Opin. Neurobiol. 2:94.
 Van Oers M, et al. 1993. Ann. Hematology 66:219.

Related Products	Product Biotin anti-mouse IL-6	Clone MP5-32C11	Application ELISA Detection, ELISPOT Detection BA, ELISA ELISA, ELISPOT, IHC, WB
•	Recombinant Mouse IL-6 HRP Avidin	rm IL-6 Avidin	
L	LEAF™ Purified Rat IgG1, κ Isotype Ctrl	RTK2071	FC, ICFC, WB, IP, ICC, IF, IHC, FA



