

#13797 Store at +4°C

IL-6 (D5W4V) XP® Rabbit mAb (PE Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P08505	Entrez-Gene Id: 16193
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Specificity / Sensitivity	IL-6 (D5W4V) XP® Rabbit mAb (PE Conjugate) recognizes endogenous levels of total IL-6 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant mouse IL-6 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in mouse cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated IL-6 (D5W4V) XP® Rabbit mAb #12912.	
Background	Acute phase response is induced by interleukin-6 (IL-6) produced by T cells, macrophages, fibroblasts, endothelial and other cells (1,2). IL-6 induces proliferation or differentiation in many cell types including B cells, thymocytes and T cells. IL-6, in concert with TGF-β, is important for developing Th17 responses. IL-6 binds to IL-6Rα and through this association induces gp130 homodimerization (1). gp130 homodimerization triggers the Jak/Stat cascade and the SHP-2/Erk MAP kinase cascade (1,3,4). IL-6 also forms a complex with an IL-6Rα splice variant that is non-membrane-associated (3). The IL-6/soluble IL-6Rα complex can then activate the gp130 signaling pathway in cells that express gp130 but not IL-6Rα (3). Research studies have shown that IL-6, through increasing expression of proangiogenic VEGF, may also contribute to metastatic breast cancer (5).	
Background References	<ol style="list-style-type: none"> 1. Heinrich, P.C. et al. (1998) <i>Biochem J</i> 334 (Pt 2), 297-314. 2. Heinrich, P.C. et al. (1998) <i>Z Ernährungswiss</i> 37 Suppl 1, 43-9. 3. Jones, S.A. (2005) <i>J Immunol</i> 175, 3463-8. 4. Jenkins, B.J. et al. (2004) <i>Mol Cell Biol</i> 24, 1453-63. 5. Hong, D.S. et al. (2007) <i>Cancer</i> 110, 1911-28. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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