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

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.

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-6R α 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-6R α splice variant that is non-membrane-associated (3). The IL-6/soluble IL-6R α complex can then activate the gp130 signaling pathway in cells that express gp130 but not IL-6R α (3). Research studies have shown that IL-6, through increasing expression of proangiogenic VEGF, may also contribute to metastatic breast cancer (5).

Background References

1. Heinrich, P.C. et al. (1998) *Biochem J* 334 (Pt 2), 297-314.
2. Heinrich, P.C. et al. (1998) *Z Ernährungswiss* 37 Suppl 1, 43-9.
3. Jones, S.A. (2005) *J Immunol* 175, 3463-8.
4. Jenkins, B.J. et al. (2004) *Mol Cell Biol* 24, 1453-63.
5. Hong, D.S. et al. (2007) *Cancer* 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

M: Mouse

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